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AGRICULTURAL MARKETING IN INDIA

Report on the

MARKETING OF TOBACCO

IN

INDIA

AND

BURMA

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INTRODUCTION.

This report shows the important place which the tobacco crop holds in Indian agriculture and indicates how returns to tobacco growers can be increased by reducing the costs of distribution at various stages from the field to the consumer or manufacturer. At present the share of the consumers or manufacturers price obtained by the grower is small, being only 10 annas in the rupce in the case of the internal trade and in respect of tobacco leaf exported to the United Kingdom the grower gets only, bout 6 annas in the rupce paid by the buyers for stripped leaf

Few people know that India produces about one-fourth of the world's tobacco and that it is the leading eash crop of the cultivators in many parts of the country Still fewer are aware that India produces high quality cigarette tobacco and that many well known brands of eigerette are manufactured in India for which large quantities of locally grown tobacco are used. In view of the general lack of knowledge and the absence hitherto of published information on the subject this report is somewhat more comprehensive and voluminous than others of the marketing survey series so far issued. This seems to be justified by the range and complexity of the material

The report sets out in detail how better prices can be secured for growers by economies in distribution, by the production of high quality tobacco,—prices of which show an upward tendency,—by establishing regulated and open markets in the main producing areas, by the reduction and regulation of market charges—which are in many cases scandalously high—and by the adoption of uniform standard quality grades

It is clear from the report that there is ample scope for extending the internal and external trade in high quality leaf It is evident, however, that further expansion of the production and trade will depend on maintaining and improving the quality of Indian tobacco. The report shows how this can be done?

Thanks and acknowledgments are due to a large number of growers, traders, manufacturers and others for their kind assistance in making this report possible by freely giving their time and friendly co operation to the marketing staffs throughout the country

Note—The Government of India should not be regarded as assuming responsibility for all or any of the material contained in this report

TO THE GENERAL READER

FOR A QUICK GRASP OF THIS REPORT, READ THE INTER-CHAPTERS AT PAGES 69, 108, 161, 189, 227, 253, 275, 299, 317, 350 and 375

OFFICE OF THE AGRICULTURAL MARKETING ADVISER TO THE GOVERNMENT OF INDIA,

DILHI

November, 1938

INDIA'S POSITION IN THE WORLD TRADE.

A -INTRODUCTION.

Tobacco is possibly the most democratic luxury and as such is "a rich man's solace and a poor man's comfort" The population, rich and poor, of all nations consume tobacco and the tobacco industry is one of the few which suffered practically no set-back during the recent depression period

Botanically the tobacco plant belongs to the natural order Scienceae which includes also potatoes, bringlas tomatoes and chillies and to the genus Vicoliana (named after Jean Nicot 1530 15600, Agint for the King of France in Portugal who introduced tobacco into France). The genus embraces over at least 35 distinct species which are mostly natives of America, although a few are indigenous to the Pacific Islands and Australasia. They consist in the main of ornamental plants used in sub-tropical gardening and only two of the species, 112, Aiccitana Tustica and Nicotiana Tabacum, are commercially important in India where they were introduced by the Porturges about the year 1605

Each of the two species contains several varieties. Howard and Howard in their "Studies in Indian Tobaccos" mention six varieties of N rustice and four of N Tobacum, as enumerated by Comes (1899) and Anastasia (1907) respectively. The N. rustica species (see plate facing page 22) is cultivated in India for smothing (mainly in hookah) and sindly and in Syria, Arabia, Persia, Abyssinia, and parts of Enrope largely for the manufacture of Smill The species N Tabacum (see plate facing page 23) is, however, more important and is the one more widely grown throughout the world. International trade in tobacco and tobacco products consists almost wholly of the Nicotiana Tabacum species, Nicotiana rustica being, as a rule, consumed locally

B - WORLD PRODUCTION

Over three fourths of the world's area under tobacco is con contrated in two continents, America and Asia The following figures, extracted from pinheations of the League of Nations, indicate the distribution of the tobacco area by continents

World tobacco acreage (Thousands)

	1925 26 to 1929 30 (Average)	1933 34	1934 35
Africa	277	252	277
America	2 397	2 346	2 086
Asia (excluding China)	2 2%	2 148	2 215
Europe (excluding U S S R)	816	704	652
USSR	218	465	468
Oceania	2	18	10
Total (excluding China)	5 936	5 933	5 708

These figure, indicate that the world acreage under tobacco delended during the depression period the decline being almost wholly due to a richical acreage in America and Europe (excluding Russia) The area in Africa and Asia has been practically con stant during recent years but in Russia the acreage has more than doubled telf.

Acquate data for area and production in China are not avail able but the estimates made by the League of Nations indicate the following position which is still highly conjectural

Area and production of tobacco in China

	Year	Area (in thousands of acres)	Production (in millious of lb)
1933		1 305	1 389
1934		1 292	1 327
1935		1 353	1 393
1936		1 345	1 404

Taking mto consideration the area in Chans the world acreage under tobacco in 1934-35 therefore comes to 7 million acres Appendix I shows the distribution of the world a tobacco area among the principal countries

It is evident that half the area under tobacco in the world (excluding Cint) is concentrated in two countries the United States of America with about 25 per cent of the total, and India and Burma with more than 23 per cent. The other important countries are the Dutch East Indias U S R Brazil, Greece, Philippiase Turkey and Cuba Among the Empire countries appearance of the other philippiase of the Canada Rhodesia and Nyasaland are the most import

It may be observed that though the area under tobacco in the world (excluding China) declined considerably in 1934-35, the average area for the depression period, 1930-31 to 1934-35, was still higher by about two hundred thousand acres as compared with the pre-depression quanquenimal (1925-26 to 1929-30) average area. Since 1935-36 the trend in world's tobacco area appears to be on the rice and it may be generally stated that since the beginning of the invest century, the world production trade and consumption of tobacco bave risen rapidly. As the Imperial Economic Committee estimated, "For the years 1909 to 1913 the average annual vorld production of leaf excluding China and India, was estimated at 2.394 million lb. For the years 1920 to 1922 this average was phreed at 2.613 million lb and in 1926 it is computed that 3,415 million lb of tobacco leaf were harvested." The correst ponding estimate of world production in 1930-36 was 5,000 million lb neckning China and 6,393 million lb methding China

Appendix II gives the production of tobacco in the principal countries of the world from which it will be observed that the aver are total quantity produced in India and Brima during the five years ending 1934-35 amonated to 1378 million lb which was somewhat higher than the amount produced in the United States of America and represented 25 per cent of the total world production exclinding China

Normally the United States of America stand first among the tobacco producing countries of the world evoluding China with India 25 ... c'oe econd Bnt since 1932-33 the production of tobacco in India has exceeded that in the United States. In making this comp rison however it may be noted that unlike other countries the figure of production in India includes not only leaf and stems of the leaf but also sometimes the whole stalk or part of the stalk of the plant which is consumed along with leaf in certain reducence types of consumption. The international trade in an manufactured tobacco is almost wholly in leaf and as such the figures of production in India are likely to give a somewhat misleading impression about the volume of Indian production to those accusanced to think of unmanificatured tobacco in terms of leaf's only

C-INTERNATIONAL TRADE

Though India now competes with the United States of America for the first place among the tobacco producing countries of the world her production is almost entirely used for home consumption the average annual exports from the country being only about 2 per cent of the total production Most of the production in China and Russia and about three-fourths of the production in Brazil is also consumed locally. China was in fact one of the largest importers of tobacco full 1982.

Of the total production in the world including thing only about one fifth enters international trade. Appendix III shows

[&]quot;To the tobacco trade generally "Leaf means lamina and stem, "Strips" imply lamina without stem or butt (i.e. the lower portion of the mid rib)

the exports of tobacco from the principal countries of the world From this it will be seen that in spite of the lurge production, exports from In lia and Burma come to less than 3 per cent of the world a exports. The United States of America hold a dominating position in the world's export trade in unmanufactured tobacco and on an average account for about 46 per cent of the world total. Dutch East Indies and Greece together provide a little over 22 per cent of the worlds total exports while Turker accounts for about 5 per cent. The Imperial Economic Committee estimates that altogether the exports from Empire countries in 1954 amounted to about 6 per cent of the world total

The direction of these exports is mainly towards Europe Durino 1937 over 70 per cent of the exports from the U.S. A. almost all the exports from Netherlands E. Indies 6º per cent from Greece and 46 per cent from India were absorbed by countries in Europe the United Kingdom beine the largest simele purchaser of the unmanufactured tobacco enfering the international trade of per cent and 46 fp er cent of the unmanufactured tohacco exported from the U.S. A. in 1933 and 1933 respectively was shipped to the United Kingdom. Appendix III gives the imports of unmanufactured tobacco in the principal importing countries of the world.

The chief importing countries at will be observed, are the Linted Kimpa in Germann France and China. Of these the Linted Linga in Germann France and China. Of these the Linted Linga in the chief country where the trend of imports of imm nufa used tobactors is in the rise even when compared with the injust during the pre-depression period. Till 1939. China was considered to be the third largest importing country but from that vear her imports rapidly declined. In 1935 and 1936 she is reported to have imported only 18 million th and 20 million he for unmanufactured t bacco leaf respectively almost wholly from the Cinted States of America. In addition she is reported to have imported about 10 million the of tobacco stalls, and stems for use un the manufacture of these curarties in each of the two vears 1932 36 and 1936-37 on account of the kieth price of American Virginia tobacco. The following figures compare the imports in the primeipal countries during the depre ion period with those of the pre-depression time.

Annual aterage imports

Importing country	Pre-de- pression period (1925-29)	Depression period (1930/34)	1935	1936
United Kingdom	203	211	252	9 1
Germany	218	183	192	192
Chma	105	109	18	25
France	97	104	5	66
U S. A	8	83	85	90
Actie lands	70	71	61	62

These figures indicate a fall in the average imports in Germany and China as against a rise in United Kingdom, France, U.S.A. and Netherlands The rise in imports in the last two countries is small The increase in the average imports into France during the depression period was very largely due to the large quantity of tobacco imported in 1930. From that year onwards, there has heen a decline in the imports and in 1936 France imported only 66 million lb Part of this decline was due to rise of production ot tobacco in France from 69 million lb in 1930 31 to 87 million lb in 1934-35. In the United Kingdom the imports have risen from 237 million lh in 1930 to 271 million lh m 1936 Apart from the general economic depression prevailing in Central Europe the fall of imports into Germany appears to he largely due to an increase in the German production of tobacco from 46 million lb in 1930-31 to 75 million lb in 1935 36 The sudden fall of unports into China has resulted primarily from a rapid increase in recent years in the domestic production of Virginia tohacco that is being used in place of imported leaf from the United States The produc tion of Virginia flue cured tobacco in China in 1937 was estimated at about 220 million lh as against about 180 million lb in 1935 and 1936 and only 3 to 4 million lb in 1925 The utilisation of carry over stocks that are not heing replaced by fresh unports also con tributed to the decline in imports. The quality of the locally produced flue cured leaf is however reported to be inferior to American leaf in that it has less oil contents and lacks in texture and aroma It has however a hright colour and burns well Production has heen encouraged by increased duties on American imported leaf and an increase in the tax on cigarettes which has forced the manufac turers to use the cheap Chanese leaf an preference to the expensive imported leaf

India is not a large importer of unmanufactured tohacco. During 1930 31 to 1934-35 her average annual imports including those of Burma by sea were only 33 million ib consisting almost wholly of American tohacco imported from the United Kingdom and the U S A. In 1930-36 these imports of unmanufactured tohacco fell to 19 million lib but in 1936 37 they rose again to 3.3 million lib

CHAPTER I-SUPPLY

A -Indian Supplies

(1) IMPORTANCE OF THE CROP

Less than 150 years ago tohacco was comparatively unknown in India's commerce. The first direct reference to tohacco in this country is associated with certain Portugese missionaries who introduced the plant and a knowledge of its properties.

Tolacco was first successfully grown for commercial purposes in the Deccan for about a century before heing carried to the rest of India As in other parts of the world tobacco passed through a period of persecution and its ultimate complete distribution through out India is only another example of the ready way in which profit able new crops or appliances are absorbed into the agricultural and social economy in this country

Tobacco is one of the important cash crops of Indian agriculture although it forms on an average only about 0.4 per cent of the total sown area in Bittsh India. The following statement shows the figures of area and production as published and hypothetical value of the tobacco crop during the past ten years.

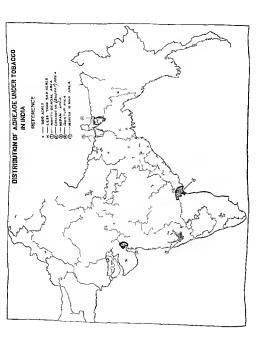
Area, production and value of tobacco crop in India and Burma

Period	Ar (Thousan	ca* dacres)	Production* (Thousand tons)				
	India	Burma	India	Burma	Irds	Burna	
1925 26	1 191	86	271	39	15 49	1 41	
1926 27 1927 28	1 117	101	354	45	18 43	2 43	
1928 29	1 167	118	o50	52	32 10	3 02	
1929 30	1 194 1 200	114 117	5-18 577	51 52	31 32	2 52	
	1 200	***	577	62	31 80	2 05	
Average of 5 years	1 174	107	460	48	25 87	2 29	
1930 31	1 146	111	524	49	19 97	1 33	
1931 32	1 199	87	584	39	19.08	0.70	
1932 33	1 163	88	577	39	17 37	0 38	
1933 34 1934 35	1 124	103	516	45	14 31	0.60	
1204 20	1 308	102	639	45	18 81	0 63	
Average of 5 years	1 187	98	569	43	17 01	0 3	

^{*} Sor res -Estimates of Area and Yield of Principal Crops in India

The estimates of value are rough approx mations based on largest prices of raw tobacco. These figures are however highly conjectural rusew of the fact that the published figures of area production and harvest prices are not complete and accurate as well be discussed later.

TREND OF ACREAGE UNDER TOBACCO IN IMPORTANT BRITISH INDIAN PROVINCES . INDIAN STATES & BURNA. IN TOTAL BRITISH INDIA - BENGAL W 54 TOTAL INDIAN STATES -x-x- BIHAR&ORISSA -0-0- BOMBAY BURNA 1150 MADRAS ---1100 1050icco · 950 900-850 800 400-350-300 250 200 50



It will be seen that in India, while the area increased by little over 1 per cent in the second quinquennium the production increased by over 23 per cent, in the value of the crop declined by about 30 per cent. The sudden increase in production and value of the crop in 1927 28 was almost entirely due to addition of statistics for certain areas for which no figures were available prior to that vear

In Burma, the area declined by about 9 per cent and production by 10 per cent during the five years ending 1934 30, as compared with the previous quinquennum. The fall in the value of the crop however, was considerably greater being about 63 per cent

(2) AREA

(a) Total—The figures for the years after 1934 30 will be discussed later but it may be pointed out bere that the statistics of area and production for India given in the foregoing table are not complete and tecurite in that they do not include the acreage and yield in all the provinces and Indian States and that the production figures for certain uses are not correctly recorded as will be explained later. The tables given in Appendices Nos IV and V show more correctly the position of area and production in the different Indian provinces and Indian States.

Figures for Burma are recorded separately

The total area under tobacco in India based on the average of the seasons 1929 30 to 1930 36 is 1 300 000 acres. The share of each of the important provinces and States is given in the following table.

Average area under tobacco (Average of 1929 30 to 1935 36)

_	Thousand acres	Percentage of total area m British India	Percentage of all Ind a acreage
British India-			
Bengal	293	27 8	21 7
Bihar and Onssa	142	13 8	10 6
Bombay	151	14 3	11 9
Madras	964	200	19 5
Punjab	71	67	5 2
United Provinces	84	80	6 2
Other Provinces	46	44	3 4
Total British Provinces	1 0al	100 0	77 8

Average area under tobacco

(Average of 1929 30 to 1935 36)

_	Thousand acres	Percentage of total area in Indian States	Percentage of all Ind a acreage
Indian States—			
Baroda	4 o	15 1	3 3
Cooch Behar	54	18 1	40
Decesu States and Kolhapur	51	17 0	3 8
Nizam e Dominions	78	26 1	5 8
Mysore	24	8.0	18
Other States	47	15 7	8 a
Total Indian States	299	100 0	22 2
Total Ind a	1 350		100 0
Burma	10		

It will be observed from the foregoing table that about 78 per cent of the tolacco in India is found in British India and the rest in Indian States Four provinces the Bengal Bihar Bombay and Madras account for a little over four fifths of the total area in British India and over three fifths of the all India area Bengal is the leading province and contains almost 22 per cent of the total tobacco acreage in India. This is followed by Madras with 195 per cent Bombay 112 per cent Bibar and Orissa 106 per cent and the Punjab and the United Provinces with 52 and 62 per cent of the Indian total respectively

Although Bengal contains over a fifth of the total area in India the ctop forms only about 1 per cent of the sown area in the province. The proportion is only 06 per cent in Madras 04 per cent in bombay and 05 per cent in Bihar and Orissa.

The average area m Indian States is 299 000 acres a little over a fifth of the total in India The largest producers are Nizan's Dominions Decean States and Kolhajur Cooch Behar and Baroda which together account for over three fourths of the tobacco acreage in Indian States and about 17 per cent of the all India area

(b) Areas of concentration—It will be observed from the map facing page 7 that the tobace acreage is not uniformly distributed but is concentrated in certain areas which form distinct tobacco growing centres of considerable commercial importance. There are five zones of concentrated production which together contam 797,000 acres or about 55 per cent of the total tobacco area in India in 1934-35

- (1) North Bengal area comprises the districts of Rangpur, Jalguri and Dinajpur of Bengal along with Cooch Behar State This zone meludes nearly four fifths of the tobacco area in Bengal and in 1931-35 the total acreage was 292 000, which represented about four fifths of the area in Bengal and Cooch Behar and one fifth of the total area in India.
- (2) The Charotar (Gujerat) area comprises three talukas, Anand, Borsad and Nadiad of Kaira district of Bombay and also two talukas, Petlad and Bhadran of Baroda State This area represents 50 per cent of the total tohacco aereage in the Presidency (including Baroda Kohapur and other Decean States), and 10 per cent of the total area in India In 1934 35 the aereage amounted to 146 000
- (3) A pan area includes Belgaum and Satara districts of Bombay along with Lolhapur Sangh and Miray States The area accounts for nearly 44 per cent of the tobacco acreage of the Presidency (including Baroda, Ko'hapur and other Decean States) and 88 per cent of the total area in India In 1934 35 the acreage was 128 000
- (4 finitur area in 1934-35 amounted to 120 000 acres or 82 per cent of the total area in India. This important cigarette leaf producing area consists of a strip about 25 miles wide along the coast in the Guntur district of Madras originally confined to south of Kishna river but now extending northwards of this point. The area under Virginia tobacco in Guntur district has been rapidly increasing and is expected to establish a fresh record during the current year (1938-39). Our half the present total production of tobacco in Madras Presidency is concentrated in Guntur district
- (a) Verth Bihar (Tirhut) area comprises the districts of Purnea, Muzaffarpur and Darbhanga in Bihar This includes over 85 per cent of the tobacco area in the province and more than 75 per cent of the total area in India In 1931 35 the acreage amounted to 111 000
- Other districts —Among other districts in Bengal, Mymensingh and Dacca are important and together grow about $25\,000$ acres

In Madras, Vizagapatam district is next in importance to Gustium and has an average area of 52000 acres. Combatore with \$1,000 acres. East and West Godavari 21,000 acres and Madura district with \$700 acres come next. The districts of Kurnool and Kistingrow about 7000 acres each. With the exception of the Nilgiris Malabar and Chingleput which grow practically no tobacco, other districts in Viedras have from 1000 to 4000 acres each the more important being Salem, Trichinopoly, Ramnad, Ganjam and North Arrot.

In BiFar, Monghyr district and in Orissa, Cuttack district are important each of them growing about 6000 acres. The Korapui district of the newly formed Orissa province has 23 000 acres.

but since that year, the area has declined due chiefly to the loss of the export trade from Burma

Complete figures prior to 1928 29, are not available for Indian Baroda shows an upward trend The highest recorded area was 59,000 acres in 1934 35 The average during the predepression period (5 years ending 1928 29) was 30 000 acres which rose to 45 000 acres during the seven years ending 1935-36 In Nizam's Dominions and Mysore the trend of area under tobacco is definitely downwards. During recent years the area in Nizam's Dominions reached its maximum of 201,000 acres in 1921 22 and 1922 23 since when there has been almost a continuous decline. In Mysore the average area during the 5 years ending 1928 29 was 27,000 acres which declined to 24 000 acres during the period of seven years 1929 30 to 1935 36 During the next few years, however, the area is expected to rise owing to the organisation of the Mysore Tobacco Company, Ltd In Cooch Behar State the trend of area is on the rise during the past seven years while during the same period the area in Deccan States and Kolhapur has ranged from 50 000 to 52,000 acres

With regard to individual provinces in British India the following figures indicate the trend of area under tobacco in the four important provinces

Trend of area under tobacco in important provinces

					<u> </u>			_
	Beng	paL†	†Bihar an	d Onssa.	Eom	bay	Mad	trus,
Period.	Area (thousand actes)	Per cent, 11se (+) or fall () ever (he proceeding average	Arca (thousand acres)	Per cent. 1140 (+) or fall (-)	Area (thousand acres)	Persont, rice (+) or fall () over the preceding average	Area (thousand sekes)	icr cent mas (+) or fall () over the preceding average
Pre-war average (5 years ending 1913 1914) Poet-war average (5 years ending 1973	318		113		*93		205	
1924)	"97	_6 6	117 135	+35	*110	+19 6	213	+3 9
Pre-depression aver age (5 years end ing 1928 29)	290	-24	135	+15 4	*126	+14 5	254	+19 2
Average for 7 years ending 1935-38	293	+10	142	+5 2	151	+19 8	°64	+3 8

* Including Sind

†As in the case of other crops, the areas under tobacco in Bengal and Bihar are much less accurately known than in other parts of British India Bengat thus shows a downward trend During the past 25 years the highest recorded area was 342 000 acres in 1912 20 In 1933 34 owing mainly to the loss of export trade with foreign countries the acreage was only 256 000 acres which rose to 305 000 acres and 307 000 acres in 1934 35 and 1935 36 respectively due mainly to the jute restriction campaign

1n Bihar and Orissa the trend is on the rise. In 1933 34 and 1934 35 however there was a sudden fall probably due to the in creasing acreage of sugarcane as would appear from the following figures relating to the three tobacco producing districts of Bihar—Muzafiarpur Darbhanga and Purnea—which together contribute over 80 per cent of the tobacco acreage in the province

Area under tobacco and sugarcane in Uuzzaffarpur Darbhanga and Purnea

(Acres)

Year		Tobacco	Sugarcane
1932 3		135 000	52 200
1933 34		114 300	129 900
1934 30		111 100	137 700

There was subsequently a rise in the tobacco area in 1935-36. It may however be stated that much of the rise in the reported sugarcane area in 1933-34 was due to a correction of accumulated errors as a result of a special survey of the sugarcane area in North Bihar

The area under tobacco in the Bombay Presidency has increased faster than in other Provinces. The average area during the seven vears ending 1935 36 was over 64 per cent higher than the pre-war vage acceage. There has been a steady increase during the last 25 years or more. During the first quinquenium of this century the annual average area in this province was only 70 900 axes so titus the area under tobacco has more than doubled itself during the past 36 years. Almost the whole of this increase took pace in the two tobacco zones of the province the Charotar (Gujerat) area and the Nipani area.

In the Madras Presidency the area has risen by about 30 per cent over the pre war average. The extent of the erop in the Guntur distinct which is the most important and largest tobacco producing distinct greatly influences the total Madras erop. Tobacco being a relatively rofitable crop there is a pronounced tendency among the farmers in Guntur distinct to grow as much tobacco as possible in many cases even without rofation. The area in this distinct has risen from 70000 acres in 1935 26 to 124,000 acres in 1935 36, a rise of over 91 per cent During 1934-35 the area under tobacco in the province rose by 44 000 acres over the previous year and of this increase, Guntur district alone claimed 25,000 acres in 1935 36 the tobacco acreage in the province declined to 280,000 acres from 292,000 acres in the previous year, but the area in Guntur rose to 134,000 acres in 1935 35 from 120,000 acres in 1934 35

in the Uninh, the movement of tobacco area from year to year erratic, but there is a slow inward trend. The pre war average acteage was 59 000 acres which rose to 71,000 acres during the seven years ending 1830-36, a rise of 20 per cent. The highest area recorded during the past 30 years was 90,000 acres in 1921 22.

The United Provinces showed a decline during the 10 years end mg 1928 29, as compared with the pre war average acreage under tobacco. There has been however a slight improvement during the seven years ending 1930 36 though the movement is irregular. The pre war average area was 87 000 aeres while the average for the seven years ending 1935 36 was only \$4 000 aeres a fall of a httle over 34 per cent.

(3) Paonucrios

(a) Ushhod of estimation—Figures of area under tobacco in different provinces in India Burma and a few of the Indian States are available for the past several years, but estimates of outturn of tobacco were only published in the year 1926 27 as a result of recom here of the total properties of the Board of Agriculture held in December 1926 at Pinsa. In estimating the production of any crop three factors are considered important, viz, area, standard or normal yield per acre and percentage relation of the annual crop yield to the standard or normal yield per acre and the figure of total production of any crop is arrived at by nsing the following equation.

Production = Area × vormal yield × per cent of normal

The figures of area are collected by petty revenue officials (call dby different names in different provinces like Talati, Patuari, Tapedar, ctc) in the temporarily settled areas and reasonable estimates of acreage under tofiaceo are available for aff the provinces except Beingel Bibar and a small part of Madras and Indian States where this system is in vogue. In Bengal Bibar and a small part of Northern Madras, the land is permanently settled and estimates of area are obtained by district officers through the agency of police or circle officers and as a result the figures of area in the permanently settled areas.

The standard normal yield is defined as "the average yield on a year of average character". To test the accuracy of this standard yield the system of crop cutting experiments is in force in some provinces while in a few others no crop cutting experiments appear to have been ever conducted for tobacco.

In Bengal standard yield is taken to mean the average of crop putting experiments made during a quinquennium by officers of Agri cultural Department. The average yield thus arrived at becomes applicable during the next five years as the basis for estimating the annual production. The estimates of percentage relation of the annual tobacce erop to the average or normal are made by district authorities.

In bombay the formulæ for normal yield of several crops were arrived at by a committee of survey experts in 1884 These for mule are I nown as Talukawar crop formulæ' and are used even now for calculating the annual yield of several crops including tobace; by taling into consideration the total area under any par ticular crop and the annauars valuation of that crop It is not exactly in a ra how the original formulæ were worked out, but the accuracy of estimates of production of tobacco based and published on a fermula devised over 50 years ago can be easily imagined some time past the authorities in the province have realised that the figures of production of tobacco based on the 1884 formula are far too ligh it is more than likely that the 1884 figures represent the yield of undried green leaf and not the dried produce usually marketed In 1927 28 a number of crop tests on tobacco were taken by the provincial department of agriculture to arrive at a more cor rect estimate of standard normal yield but the results obtained were thought to be rather low and since then no further attempts appear to have been made to revise the 1884 figures. During the course of enquiries on marketing it was observed that figures of actual production of tobacco in Bombay were far lower than those published on the basis of the 1584 formula and further enquiries eligited that the published figures are over three times the actual production as can be seen from the following figures

Estimates of production of farm cured tobacco in the Bombay Presidency, excluding Sind

(Tons)				
Year	Published estimates based on 1884 formula	Estimates made during Marketing Euquiry		
1930 31	104 017	34 815		
1931 32	141 360	46 800		
1939 33	115 169	39 030		
1933 34	106 073	33 461		
1934 35	144 997	48 345		
1935 36	150 357	49 631		

The standard normal yield of tobacco in Madras is 1 190 lb per acre fixed in 1919 and never revised since then Conditions of

production change from year to year and it is therefore obvious that any figure of the estimate of production based on a standard fixed about 19 years ago has to be treated with caution For example, the standard yield fixed for Guntur district is 1 000 lb per acre When this stan lard was fixed there was not a single acre under virginia tobacco in Guntur district. Of the present area of over 120 000 acres under tobacco in Guntur district two-thirds is under virginia which yields on an average about 750 lb of raw leaf or about 400 to 500 lb of processed leaf per acre, the remaining being under country tobacco yielding about 1 200 lb of raw tobacco Before this tobacco is offered for sale to manufacturers of cigarettes and chercots losses in weight occur on account of driage stripping and striming Such loss's are estimated at 30 per cent in the case of vir inia and 40 per cent for country tobacco. Similar is the case with regard to other districts. 35 per cent for Ganjam Vizagapatam and Godawari districts and 10 per cent for the remain ing districts except Madura Rammad and Tinnevelly have to be deducted from the published vield figures to arrive at the weight of cured leaf actually produced Vaking allowances for these losses in weight it is found that the total production of cured tobacco in the Madras Presidency is much lower than the published figure. eg .—

Filimates of production of farm cured tobacco in Madras

(Thousand tons)

	Year	Pub	lished figures	Estimated actual productuion of cured leaf
1930 31			122	101
1931 32		1	142	119
1939 33			138	112
1933-34		1	129	107
1934 3ə			153	178
1935 36			13	116

In Bihar the proposal of fixing the standard normal yield too tobacco cine up in 1852 and was finully fixed in 1906 at half a ton per acre for the whole of Bihar and Orissa on the basis of the average yield then prevailing in only two districts Darbhanga and Muzaffar pur The important district of Princa appears to have been left out and there has been no rev son of the standard normal yield figure during the past 32 years. The annual production is calculated taking into account the area the standard normal yield and percentage to normal yield of the crop each year.

LHCAR

 N_0 standard yield figures have yet been prepared for the N-W. F P, and the production figures which have not been worked out intherto are estimated as below, taking into account the area under tobacco and the average yield per acre

Estimate of production of farm cured tobacco in the h W F P.

						2011
1930-31			••	•		12 000
1931 32	••	••				14,000
1932-33					••	8 000
1933-34			••	••	••	6 000
1934-35		••	••			15 000
1935-36		••				18,000

Prymes of standard normal yield for Sind do not appear to be available possibly they were never worked out. The Provincial Department of Agriculture reports that the average yield may be taken at 1646 lb per aere for the whole profunce. Estimates of production in Sind have been separately published since 1933 34 but these jublished figures are below those collected during the course of the marketing survey as can be seen from the follow this.

Festimates of production of farm cured tobacco in Sind
(Tons)

Yesa		Poblished figures	Estimates made during the course of Marketing Enquiry	
1930-31				5 000
1931 32			1	6 000
1932-33		•	l l	5 000
1933-34			1000	3,000
1934-35			1 000	4,000
1935-36			3 000	6,000

Among the Indian States Hyderabad appears to be the only State where figures of standard normal yield were fixed in 1931. The annual production is calculated No standard yield figure for hysory has yet been prepared and the published estimates of production are based on the information collected annually by the local revenue authorities. During the course of marketing survey, how ever it was found that these estimates are far too low and that the

actual production is more than double that indicated by the pub lished estimates

Estimates of production of farm cured tobacco in Uysore State (Tons)

Year	Published figures	Estimates made dump the course of Marketing Enquiry
1930 31	4 000	8 000
1931 32	3 000	1
1932 33		8 000
1933-34	3 000	8 000
1934 35	4 000	8 000
193a 36	3 000	7 000
1936 27	3 000	7 000
1937 38	3 600	7 000
		8 000

No standard yields exist for any crop in Baroda The pub lished estimates are based on the forecast figures supplied by the local Reve me Officers who afterwards subm t final estimates No corrections appear to be made in the published figures after the receipt of the final estimates and these two sets of figures vary con derably as ean be seen from the following -

Fstinates of production of farm cured tobacco in Baroda State

	Baroda Stat	
Year	Published figures based on prelimi nary forecast	Figures based on final estimates
1930 31		
1931 32	8 000	7 000
193° 33	7 000	8 000
1933 34	8 000	8 000
1934-35	5 000	5 000
1935 36	4 000	11 000
No estimates of produc	18 000	13 000

No estimates of production f tobacco have hitherto been made for any other In him Stat except for Kharpur in Sind for which figures of estimated production are being published since 1934 35 Cooch Behar in north Bengal and Kolhapur Sangli and

Miraj in the south of Bombay Presidency have fairly large tobacco production which has been estimated Excepting Cochin and Tra vancore which grow no tobacco several other States have some area under tobacco and similar estimates have been made for Kashmir, Patiala and other Punjab States Gwalior, Central India and Raj putana States Gujerat and Western India States, Madras, U P and Eastern States etc. It is estimated that the figures of area and production of tobacco cover about 91 per cent. of the area under Indian States and the survey embodies about 97 per vent of the total area of India and Indian States

In Burma figures of standard normal yield do not appear to nave yet been prepared. An average yield figure of 990 lb of tobacco per acre was fixed by the Commissioner of Settlements and Land Re cords in 1922 and the annual production is being estimated on the basis of area muon robacco and the average yield of 990 lb per acre from that year. There is no annual valuation of the crop on per centage or annua basis.

Another important factor in judging the production of tobacco in India is that while international trade in unmanufactured tobacco consists of leaf alone the internal trade in India very largely con sists of leaf and also stalks and stems that are gathered during the course of picking and sold as tobacco. In parts of the Punjab North West Frontier Province Delhi and the U P the whole plants are harrested cured and sold as tobacco. In other cases a large portion of stem and stalk is picked along with the leaf and sold as tobacco When the question of the publication of estimates of production was first taken up the provincial authorities were asled to send returns in terms of weight of dry leaf as ordinarily marked by the cultivators but the weight of stall's and stems were also to be included in the outturn returns in provinces where the stalks and stems have a commercial value Some provinces however, where stalks and stems have got a marlet value supply returns of weight of dry leaf alone others include both leaf and stalks and stems Provinces like Madras supply figures of theoretical weight of dried leaf and not cured leaf as sold by growers. It is there force resential to collect figures on a uniform basis and separately for farm cured (a) leaf and (b) stall's and stems if and when these are sold as tobacco along with leaf

(b) Aterage yield per acre (leaf end stalks and stams)—The vivid per acre obviously varies from province to province and from district to listrict and often from one village to another depending on the variety and type grown soil cultivation (unrgated or in irrigated) eason and the extent of damage by frost, pests and diseases. The average annual vield of raw tobacco in India as pulshed in the 'Quinquennial reports on the average vield per acre of principal crops in India " was 1179 b) per acre during the qui quennium ending 1831 32 as against 1555 lb per acre prevailing during the 5 years ending 1826 27 Similar figures are published for Ben_al Vladras Punja Assam and Delhi These figures might.

be taken as some index of the fluctuation in yields if provinces are not trying gradually to correct errors in the original basis but are not quite accurate having been based on faulty standards and varying basis as (xplaimed earlier

As a sent of marketing surveys conducted in the several provious and States it is estimated that the average yield of tobaccoduring the six years 1930 31 to 1935 36 was 1 030 lb per acre in British India and 707 lb per acre in Indian States or an average of 950 lb per acre in the whole of India including Indian States. This average yield per acre does not however represent the yield of leaf aline as in certain areas the leaf's harvested along with stalks and stems. The following statement gives the average yield per acre in different Indian provinces and States and Burma and the approximate proportion of stalks and stems included in the total

Average will of rin tobacco per acre (Average of 6 years ending 1935 36)

Province or State	Yield per acre	Percentage of stalks
Brsisek Indsa-		
Assam	1 120	20
Bengal	986	25
Bihar and Orissa	933	2,
Bombay	627	
Central Provinces and Berar	640	20
Delh ₁	2 240	331
Madras	964	15
North West Frontier Province	2 400	331
Punjab	920	50
Sind	1 646	334
United Provinces	2 240	331
British India avetage	1 030	171

Average yield of raw tabaeco per acre (Average of 6 years ending 1935-36)—contd

Province or State	Yield per acre	Percentage of stalks
rdian States		
Baroda	448	
Cooch Behar	110	25
Hyderabad	4%	33}
ДЪ⊧оъе	46	
Other Indian States	~7	21
Indian States average	-0-	201
Average for India (uncluding Indian States)	959	18
qrma	990	

The average annual yield per acre in India is 959 lb of which 18 per cent or 173 lb consist of the stalk of the plant The yield of leaf alone thus comes to 786 lb per acre

Apart from the soil, season and cultivation factors, the yield per acre aries in accordance with the type grown and irrigation given Thus in funture district while the per acre yield of raw virginia organette leaf is about 750 lb.* that of country organette tobacco about 1 200 lb. In the U.P. the hookah and chewing types yield about 2 300 lb per acre while the virginia organette and bid types grown to a small extent vield only 600—800 lb and 500—700 lb per acre respectively. In Visore the vield per acre of bid types is 640 lb while the yield of virginia eigenetic leaf is only about 500 lb per acre. In the Charotar area of Bombay the irrigated crop yields about 1500 lb of bids tobacco per acr, as against 750 lb obtained from an acre of unirrigated land. In the N.W. P. P. a field irrigated from a well gives about 2,000 lb of tobacco leaf and stalks, and stems per acre while if the field is irrigated by canal water the yield obtained is only 1640 lb per acre.

(c) Total production—The annual average production of raw tobacco during the six years ending 1935 36 was 483 000 tons (1 082

[&]quot;It is reported that during the past 5 or 6 years the average yield of Virginia flue-tured leaf in Continu has shown a progressive dechine and at present it is very unlikely that the average for the Guntur district as a whole exceed, \$500 lb of useable leaf per aree.

million lb) in British India and 93 000 tons (208 million lb) in British India Strees Thus 83 7 per cent of the production is found in British India and the rest in Indian States (see Appendix V)-Bengal accounts for 223 per cent of the total production Madras 197 per cent the U P 142 per cent Bihar and Orissa 104 per cent Bombay 72 per cent and the Punjab 52 per cent It may be noted that t dough Bombay has a larger acreage under tobacco than ether the U P or B ind O her production is smaller than in either of the to a latter provinces because of the lower yield per acre. Other provinces constitute 47 per cent of the total production

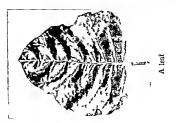
The Indian States of Hyderabad Cooch Bihar Baroda Mysore and the Decean States and Kolhapur together produce 72 000 tons on an average or 125 per cent of the average production in India and over three fourths of the production in Indian States

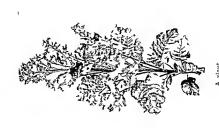
The $_{\mbox{\scriptsize IV}}$ rage annual production in Burma is 44 000 tons or about 99 million lb

(d) Production in concentrated areas — The production of raw tobacc in the 5 zones of concentrated cultivation in 1934 35 is given below

	Name of zone	Pro faction of taw tobacco	Percentage to total product on in Ind a
_		(Mill on lb)	
1	North Bengal (Rangpur Jalpa guer Dinappur districts and Cooch Bhar		
	State)	327 6	27 %
2	Charotar (Gujerat) area of Bombay (Kaira d strict and Buroda State)	84 1	5 9
3	Nipani area (Belgaum and Satara districts and Kolhapur Sangh and Maraj States)	84.8	9
4	Guntur d str ct (Madras)	141 8	9.9
5	North Bihar (Tsrhu Pur es Muzaffar pur and Darbhanga distr ets)	J9 ()	6.9
	Total	736 7	51 5

A little more than half the production of raw tobacco in India is thus concentrated in these five zones. It may be noted that while the North Bengal zone accounted for 20 per cent of the total tobacco area in India it produced 22 9 per cent of the total production in the country. The Charotar area on the other hand occupied 10 per cent of the total area but it produced only 5 9 per cent of the total area but it produced only 5 9 per cent of the total area.









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Indian tobacco Similar is the case with the other three zones. These differences between the proportions of area and production are due to differences in the estimated yield per acre in the different zones. Of all these p zones, Guntur district is assuming increasing importance in view of the rapid expansion of eigarette tobacco-cultivation.

(4) QUALITIES AND TYPES

- (a) Botanical types -It is comparatively simple to distinguish the two main cultivated species viz Aicotiana rustica and Aicotiana Tabacum Apart from the fact that the former has a yellow flower it is generally a more robust and densely growing plant than N Tabacum (see plates facing pages 22 and 23) which has a white or pink flower and an elongated comparatively smooth and generally pointed leaf as distinct from the thicker somewhat coarse textured leaf of A rustica which is often as broad as it is long and inclined to be rounded at the apex. In the cured state the two species main tain their distinctive characteristics. The cured leaf of A rustica is generally dark (or greentsh) brown while that of A Tabacum may range to bright lemon in the case of flue-cured Virginia. There is a noticeable difference also in the strength of the tobaccos of A rustica the nicotine content ranges from three and three quarters to over eight per cent while the nicotine content of A Tabacum leaf seldom exceeds five and a quarter per cent, and may be as low as half of one per cent
- Although the Howards have recorded* cases of natural cross ferthisation at Pusa resulting in plants with characteristics inter mediate between the two species the fact remains that from a hotani cal point of view it is an easy matter to distinguish the two species. Bevond that point, however, it hecomes practically impossible to make any clear cut classification by varieties. The types in each species form a complete series in respect of height of plant length of internodes size, shape and texture of leaf, etc., so that it is impossible to draw clear lines of distinction. Here are however very wide differences in the types in each species ranging in the case of A rustica from the dwarf Ansuari type as grown in the North West Frontier Province to the medium Cole citya of the United Provinces and the Plunjab and the tall Molifiant of Bengal

Similarly in the case of \ Tabacum there is a hig difference hetween the tall somewhat slender \(^{\mu}_{irginia}\) types of \(^{\mu}_{outlur}\) and \(^{\mu}_{outlur}\) and \(^{\mu}_{outlur}\) and \(^{\mu}_{outlur}\) and \(^{\mu}_{outlur}\) and \(^{\mu}_{outlur}\)

The multifarious types are known by local names which may sometimes be that of a village in the di triet where they are grown or a descriptive name such as Kongumadari (long leaf) Volubandu (thick leaf) Anchiti (Elephant's ear) Vazhakkappal (like a banana leaf) and so on In regard to the nomenclature of the species itelf

of the area under λ rustica is concentrated in the United Provinces, Bihar and Bengal while the remainder is distributed over the λ W F P Punjab Assam and the Indian States in the Punjab Rapputana Central India and the United Provinces. In provinces such as Punjab, United Provinces Bihar and Bengal where both the species are grown extensively there are in general no separate areas for each of the two species and the λ Tabacum is grown in the same districts as λ rustica

- (c) Commercial types and descriptions—Quality characteristics—Tobacco is used in many different ways and certain definite quality characteristics are required in the r w and cured tohaccos which constitute the various forms in which it is consumed. Apart from tohacco used for chewing and suiff or in the manufacture of insecticides (an industry which is apparently not carried on in India) the main factors are those associated with suoking quality eg strength hurning character ash and aroma or flavour. In the first instance however the tobacco is judged on the physical characteristics of the cured leaf eg colour texture size of leaf and freedom from blemish.
 - (i) Colour is an important characteristic and is generally talen as an index of strength. It is supposed that the darker the colour the stronger the tobacco and tice tessa. Cigarette leaf ranges from bright lemon to reddish brown. The dark shades are also used in pipe and shar tobacco.
 - For eigers and cheroots the leaf should be light to dark brown In the east of bids orange to light greenish brown leaf is preferred although sometimes a propor tion of dark brown leaf may be used to give strength to the mixture No special stress is laid on colour for hookah and smuff tohaccos and for chewing light leaf is preferred in Bombay dark brown in Madras and the Jaffi e chewing tobicco imported from Ceylon into Traiancore is very dark
 - (11) Texture—Tbis is also to some extent associated with strength It is considered that thick leaf contains more meeting and is stronger than thin leaf
 - For eigarettes the lenf should be thin fine and silky like a thick handkerchief. If it is very thin and papery it won it stand enting. The leaf should therefore have ome body. Similar leaf but of medium thickness and planhe is sinitable for pipe tobaccos and for use in the cheaper form of eigarette.
 - The wrapper leaf for eigars should be thin phable with smooth glossy appearance and the veins should not be prominent. For a straight cheroot the same type of wrapper leaf is required but for the twisted cheroci a leaf of medium thickness is preferable.

- For fillers in both eigars and cheroots the leaf may be medium to thick. For making bidss, leaf which is fairly thick but not coarse is desirable in order that it may not hreak down to dust when being made into bids powder which consists of pieces about one eighth inch in diameter.
- When tobacco is used for chewing in the leaf form a medium texture is preferred but a thick leaf should be used when the tobacco is to be made up in a prepared form for chewing. The leaf used for hoolah tobacco is convenit, thus, and coarse
- (iii) bize of leaf —For the manufacture of etgarettes the leaf normally ranges from 12—18 inches long and 6—9 inches wide although smaller leaves of 6 by 3 inches may be used Smalar leaf is used in preparing pipe and shar tobaccos.
 - The wrapper leaf of eigars and cheroots should be 9—12 mehes broad and 2 feet or more long but for tillers the size of leaf is unimportant
 - For certain types of chewing tobacco large sized leaves are preferred but for the preparation of shuff hookah and but toba cos size is a relatively unimportant factor
 - (ii) Blemi h The presence of diseased patches or damage on the leaf is particularly objectionable in the cale of cigalette eight and cheroot tobaccos, but relatively unimportant in other cases.
 - (v) Strengtl is perhaps the most important factor in smoking quality. Cigarite tohacco should be mild our neutral with a meotine content of not more than 2 percent and a quarter and ranging as low as helf of one per cent. Pipe and shap tobaccos are generally a little stronger.
 - Cigais may be mild or strong and the leaf used contents generally from 21—31 per cent of meetine although in the case of the mild Trichinopoly cigars of Madras the microine content may range as low as half per cent. The common twisted cheroot of Madras is Lowever much stronger and is made from leaf having a microine content ranging up to 54 per cent.
 - The Burma cheroot may be either mild or strong and the nucotine content of the leaf need ranges from 1½ to 4 per cent in local types up to 4½ per cent in some of the jati leaf imported from Bengal
 - Bids as a rule are if anything stronger than cheroots with the meotine content of the leaf ranging from 2½ to 5½ per cent and an average round about 4 per cent. The meotine content of chewing tobacco is much the

[&]quot;The figures used throughout this section are based on the analysis of commircial samples of tobucco leaf of different types drawn from various parts of India and Burma

same as that used for bidi* but the leaf used for hookahs usually bas a meetine content ranging from 3 to 7 per cent

- (11) Burning character—This must be slow, regular and continuous Evenness of burning is particularly important in the case of cigar leaf
- (vn) Ash—It is important that the ash should be of a whitish colour in the case of good eigarette, eigar, cheroot and bidi tobaccos but in the case of hookah tobacco colour of ash is immoortant
- (t.ii) Aroma or flatour—This is difficult to define—It should, however, be pleasing and characteristic of the type of tobacco—In every case the leaf used should be free from excessive pungency or objectionable—e.g., earthy—flavours or uninsual aromas. For example, a "Turkish" aroma however good would be regarded as objectionable in leaf intended for the manufacture of "Virginia" cugarettes.

From what has already been said regarding the characteristics of Nicotiona Tabacian and Nicotiona rustica it will be clear that the quality required for eigercite, pipe shag eiger cheroot and bids tobaccos cannot be found in the Nicotiana rustica species. This species, therefore, is only suitable for use in the preparation of hoolah, chewing and smill tobaccos although a small amount of a N rustica variety with a high nicotine content is sometimes used in bids mixtures to bring the strength no to average

(d) Estimates of area and production by different commercial types and methods of curing—International trade in tobacco now consists of leaf of definite types of A Tabacum species, but in India figures of area and production by different species (A Tabacum and Yrustica) and types (eggarette, eggar, bldt, hookah, chewing, leaf, etc., are not available, officially or otherwise. It is, therefore a primary essential to classify the tobacco area and production by species and types to help the development of internal as well as external trade. This would also make it possible to institute a market news service which is conspicious by its absence in India's tobacco trade.

As a first step, statistics of estimated production should be collected in respect of the two species λ rustica and λ Tabacum and the latter may be sub divided into different types like eigarette, eigar and eberoot, brid, ebewing hoolah and smull. The eigarette leaf may be further classified into (a) Virginia and (b) Des (Vatu) each of which should be sub divided into (i) fine cured and (ii) sun curred.

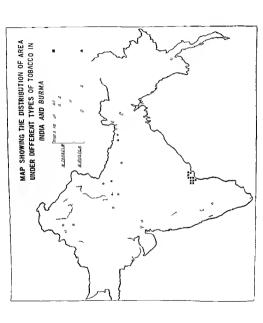
As a result of extensive enquiries made during the course of marketing surveys, the following estimates based on 1934-35 area and production are given for the two species and different types grown in India (see Appendices VI and VII)

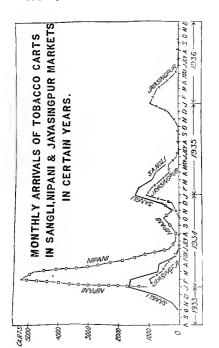
^{*}Indigenous form of cigarette wrapped in the leaf of a tree (see pages 327 28)

Estimated area and production of different types of tobacco in India (including Indian States)

	An	ea.	Produ	Production	
Species and type	1housand acres	Percent age	Thousand Ib	Percent age	
\scotvana Tabacum	1				
1 Cigarette virginia	41	2 8	27 173	1	
2 Cigaretta country	-0	4 8	72 668	5	
3 Cigar		0 4	5 044	0 :	
4 Cheroot	129	8.8	123 986	8 1	
5 Bidi	231	'a 8	134 245	9	
6 Chewnt	164	11,	144 055	10 1	
" Hookah Chilasi etc	45a	31 1	436 136	30 a	
8 Snuff	21	14	13 906	1 0	
[ota]	1 116	76 3	957 213	67 0	
hicolvana rustica					
l Hookah	306	20 9	410 523	28 7	
2 Chewing	*9	2 0	38 906	2 7	
3 Snuff	11	0 8	22 586	16	
Total	346	23 7	472 015	33 0	
Grand Total	1 462	100 0	1 429 228	100 0	

A little over three fourths of the area and two-thirds of the production in India are thus of N Tabacum species It will be observed that the production of virginia cigarette robacco for which there is international demand is just about 2 per cent of the total





There is a larger production of country eigarette tobacco for which the demand is mostly local, only about 10 to 15 per cent of the crop being exported, largely to Japan The other types are intended very largely for internal consumption

In Burma, all tohacco produced is of A Tabacum species, the principal types heing cheroot, bidi and chewing The following figures give the estimated area and production of these three types hased on 1934-30 area—

Estimated area and production of different types of tobacco in Burma.

	Area		Production	
Ттре	Thousand acres.	Percent ace	Thousand lb	Percent age
\ abueu				
1 Cheroot	94	8, 4	83 160	S2 4
2 Bidi	13	17.7	12 8,0	12 7
3 Chewing	5	4 9	4 950	4 9
Tot 11	102	100 0	100 9 0	100 0

In view of the fact that production figures in Burma are based on a flat average yield of 990 lb per acre fixed as early as 1922, the estimates of production for the three different types are highly conjectural

Methods of curing determine to a large extent the quality of tobacco leaf, particularly with resard to colour and texture and hence statistics of international trade in unmanufactured tobacco specify not only the types inti also give information with regard to the method of curing adopted for preparing the tobacco leaf for the market. Information on this point also is completely lacking for any part of India or Burma officially and otherwise. The importance of such information can be easily imagined when it is stated that in the United Kingdom which is India's principal market for unmanu factured tobacco as will be shown later, about 55 per cent of the imports from the U S A are of virginia flue-curred type

Fixtuates as well as geographical distribution (see map facing people 28) based on 1933 35 figures regarding the area and production of different types of tobacco cured by different methods are given in Appendices VIII and IX and the following summary indicates the approximate production of the different types cured by different methods

Estimated production in India of different types of tobacco cured by different methods (1934-35)

(Thousand lb)

_	Spec es and type	Flue cured	Rack cured	Ground cured	Pit cured	Total
	Vicot ana Tahaeu n					
1	Cigarette viroin a	°5 830	1 343			27 173
	Ciga ette co ntry	3 438	65 335	3 895		72 668
3	Cgne	1	5 044			5 044
4	Cheroot		1°3 498	488		1º3 986
б	Bidi	1	9 467	124 7 8		134 245
6	Chewing	i	40 802	84 399	18 854	144 0.5
7	Hookah Chilam etc		66 050	314 512	55 574	436 136
8	Spuff		4 290	9 616		13 906
	Total	29 268	315 829	J37 688	74 428	957 213
	hicoteana ruelica					
1	Hookak	1	39 20	370 801		410 523
2	Chewing			38 90°		38 906
3	Snuff	i .		92 586		°2 586
	Total		39 20	437 00		472 015
	Grand Total	29 268	355 549	969 983	74 428	1 429 228
	Percentage	2 0	24 9	67 9	ა 2	100 0

Thus only 2 per cent of the total production is of flue cured type for which there is an increasing demand in the world market. The production of rack cured tobacco is about one fourth while that of ground cured is over two thirds of the total

In Burma all tobaccos intended for 11h making and chewing are ground cured. Out of the total production of 83 160 000 lb of cheroot tobacco the estimates for race curred are 24 750 000 lb the rest to 58 410 000 lb being ground cured.

(e) Geographical distribution of commercial types—(i) Cigorette types—The principal types of eigerette tobacco are the Virginia and country (Natu or Desi) Adock and Harrison Special are the chief Virginia varieties the latter beam by far the most important

Adcock was considered to be one of the best eigarette tobaccos of the United States of America and was first introduced into India by the Indian Leaf Tobacco Development Co, Ltd., in the Guntur area where it was found to grow well, give a satisfactory yield and cure to a good light colour. The plant is of medium height with medium interindes, icaves sessile, cliptical, smooth, dark green and thur

The Harrason Special variety was also introduced by the Inc.i.a. Leaf Tobacco Development Co, Ltd., into the Guntur area where it has almost entirely displaced Adoock. The plant is taller than the Adoock more vigorous and stands hetter the high temperatures. The leaves develop a better yellow colour in curing and the colour is considered to keep better during storage. The yield obtained is also hetter than Adoock.

The cultivation of Virginia eigarette tobacco is confined almost entirely to the Guntur district and to a small extent in Kistna and Godavam districts of Madras Presidency Small areas ranging from 100 to 200 acres are grown in Satara (Bombay), and Saharangur and Jbans (U P) Sind used to grow ahout 200 acres but the cultivation has now practically disappeared. In Mysore the area is increasing heiga about 2,500 acres in 1937 38 and estimated at about 5,000 acres in 1938 39. In Guntur district also the area has increased and was estimated at 50,000 acres in 1936 37 and 80 000 acres in 1937 38. In previous years North Bihar nied to produce a fairly large quantity but the cultivation has now heen given in owing to the unsatisfactory flavour fine curing.

Country (Natu or Desi) tohacco used in the manufacture of cheaper forms of eigarettes and pipe and shag tobacco is the local tobacco grown almost wholly in the districts of Guntur in Madras Presidency and Muzaffarpur in Bihar Different local names are given in the two districts. Thus in Cuntur district it may be called Tholkaku (narrow leaf with tendril like tip), Desa Vali (moderately narrow leaf) and Dalshingrths (hroad leaf) In Bihar it is known as Bonrs (thick and dark leaf) or Chhuria (medium and yellowish brown leaf) The country (Natu) tohacco of Guntur is the more important for cigarette manufacture. The leaf there is moderately thin in texture, pleasing aroma of mild or neutral strength and the colour ranges from light to dark brown. The light and medium coloured grades are used in the manufacture of cheap cigarettes while the darker grades are sulf for pope and shar tubaccu. The length of the leaf is about 15 inches and over while the hreadth is between 6 inches and 9 inches. The nicotine and ash contents are about 2 and 18 per cent respectively The country (Dest) tobacco from Bihar is less important in the cigarette trade. The cured leaf is about 15 inches to 18 inches long and 6 mehes to 9 inches broad, vellowish brown in colour and medium texture. It is mild in strength but sometimes has an earthy flavour and on this account eigarette manufacturers have been reducing their purchase of this kind of leaf in preference to the country tobacco from Guntur

(u) Cigar types—Cigar leaf produced to a small extent in Madras and Bengal is brown to dark brown in colour, thin texture and strong flavour The length of the leaf varies from 15 inches to LHCAR 24 inches and the hreadth from 4 inches to 9 inches. Nicotine contents range from \$\frac{1}{2}\$ to \$\frac{3}{2}\$ per cent while ash contents vary from \$\frac{1}{2}\$ to \$2\$ per cent. The important varieties are Pennsylvania, Sumatra and Buriness Hvania grown in the Rangpur district of Bengal and Usikappal grown in Trichinopoly and Combatore districts of Medras.

(m Cheroot types -The cheroot tobacco grown in Burma has thin to medium texture brown to dark brown colour and medium strength The leaf is 15 mehes to 30 mehes long and 6 mehes to 12 mehes broad and contains an average of about 28 per cent of mico tine and over 19 per cent ash The bulk of the cheroot tobacco grown in Barma belongs to two groups Aun-qua-hie mostly grown north of Theyetmyo and I net pya kee cultivated principally in the south of Thayetmyo Both helong to the same variety which yields leaf of medium texture dark in colour and medium in strength. There is however a difference in flavour and aroma. The other varieties are Shwegun, Burmese Harana and Shwe-ta-sol. The first two have narrow leaves thin texture and strong aroma As a result of variations in soil and cultivation conditions there are a number of subgroups under each of these varieties Thus under Shweavin the four principal sub groups are Shuegyin Taung bat kan sai grown on the banks of Shwegy in ther and considered to be of best quality with regard to aroma texture and keeping quality, Taung paw-sai cultivated on the banks of the "Ie hy Madama-chaung", San-hpaisas, along the Kyankkyi channg and Taw-sai or Ye nauk sai grown on poorer types of soils

The Jat, tobacco grown in north Bengal is largely used in Burma for the manufacture of cheroots. It is commonly known as Pools Common in the Calcutta market. The cured leaf of Jat is greenish brown in colour medium in texture and strength about 15 inches to 22 inches long and 6 inches to 12 inches hroad. The average nicotine and ash contents are about 3.82 and 17.2 per cent respectively. The principal varieties of Jat arising from differences in soil and climatic conditions in the different localities are Bheng, Mono Bheng, Nookhol, Smalur Khots and Hingli. The Bhengs variety is the one used largely in the manufacture of cheroots. The other varieties are mostly used for hookal and to a considerable extent for chewing and suiff. The "sand leaves" : c, the lowest leaves near the ground, of Jat; tobacco are called Bupant and are sometimes used for the manufacture of low grade cigarettes. The Bupant leaves are yellowish to dark brown in colour thin in texture, about 15 inches to 18 inches long and 9 inches to 12 tuches broad.

In Madras the leaf grown in Trichinopoly Madura, Comhatore and Guntur districts is used for cheroofs as well as for cheroid. The colour of the cured leaf is dark brown to almost black and the texture is thin to inclum. The length varies between 12 inches to 30 inches and the hreadth between 3 inches to 12 inches in accord ance with the district where the tobacco is grown. Thus the Monna-happal variety grown in Madura district has leaf over 27 inches long and 12 inches broad while Usikappal of Combatore is between 12

mehes and 19 inches long and 3 inches to 6 inches broad. The mootine contents are about 470 per cent and the ash about 1743 per cent. The local names of the principal varieties grown are Usikappal (grown in Trichinopoly and Coimhatore) Mechanizapal and, Vatidakppal and Ferumarkappal (Coimhatore), Monakappal (Madura), Lankas (grown in islands formed in river beds) and Chebrole (grown at Chebrole in Gimitur district)

(iv) Bidi types—(a) A Tabacum—Bidi tohacco is principally grown in Gujerat and the Nipam areas of the Bombay Presidence, and to a small extent in My sore The cured leaf from Gujerat is greenish to yellowshi brown in colour, thek in texture, of medium strength, about 12 inches to 15 mehes long and 5 mehes to 9 inches broad. The nicotine and ash contents are about 3 and 19 per cent, respectively. The principal varieties are Gundin, occupying about half the total area under tohacco in the Charotar (Gujerat) area and yelding a broad, thick and rather strong and coarse leaf, Piliu which gives a narrower and shorter leaf, strong in aroma, Keliu, which yields a long and hroad leaf, thick in texture and strong in flavour, Moladiu having greenish yellow and brown leaves and Shengiu with leaves long, narrow and thin

The bidi tohacco grown in the Nipaui area is considered to he stronger than that from Gujerat. The colour of the cured leaf is from yellowish to dark brown, sometimes with dark spots, the texture is thick and the length and hreadth vary hetween 12 inches to 18 mehes and 6 inches to 9 inches, respectively. The flavour is strong and the motione and ash contents are about 4 and 19 per cent, respectively. The principal varieties are Mirji, Nipani, Sangli and Jauari. The first three names are those of the neighbouring tohacco markets while the last named variety is grown to a small extent in Sholapur district.

The bidi leaf produced in Mysore is yellowish hrown in colonr, medication in texture and strength, above 15 inches long and from 3 inches to 6 inches hroad. The meotine content averages about 493 per cent and the ash content about 14 per cent. There are only two varieties, broad leaf and narrow leaf each of which is known by different names in different localities e.g., Anchii, Choutikudi, Kongumadari, Kangalmadari, Kathekii, Balepalh, Jerebandi and Motubandi These varieties are also used for chewing

- (b) N Rustica—A variety of this species called Pandharpuris grown to some extent in the Nipani area and used for giving strength to bidi mixtures. The leaf is light to dark brown in coloni, thick in texture, over 12 inches long and 6 inches to 9 inches hroad with a strong flavour as the meotine content ranges from 4 to 8 per cent.
- (v) Hoolah typis—(a) N Tabacum—In Assam, the tohacco nised for hoolah is known as Desi or Mitha or Jat: The leaf is green ish brown in colour, thin to medium in textine, moderately strong, and about 18 inches to 20 inches long and 6 inches to 9 inches broad The thick middle leaves are also used for chewing There are several varieties the chief of which are Smdurkhatua, Kadamadal, Hathlania, Chama, Faluakhol, Daria, Sakuma and Barapai

The bulk of the Jat, tobacco grown in Bengal and an appreciable quantity of Des; tobacco from Bibar already referred to under cheroot and eigarette tobaccos is used for the hookah

In the United Provinces the Desi tobacco though primarily used for chewing is sometimes used for hoodal. It is also known as Poorbit The cured leaf is long and anarrow (about 15 inches long and 6 incaes broad) greenish to dark brown in colour thin texture and mild in strength.

The leaf of th Des variets of the Punjab is greenish brown in colour thin to medium in texture and strength about 16 inches long and 3 inches to 6 inches broad. A large number of local names are used in different parts of the province but it appears that most of them can be grouped under four beads.—

(i) Noke-leaf long narrow and tapering tip is very much eloquated mild in smoking (ii) Kakkar—the plant is dwarf the leaves are thick and broad and possess folds on the surface strong m smoling (iii) Ghora—the plant is tall. The leaves are broad and thim The smoking quality is poor and (iv) Gidri—the plant is medium in size and leaves broad strong in smoking.

The bidi tobacco grown in the Charotar (Gujerat) and Nipani areas of the Bombay Presidency is also partly used for hookah

In Hyderabad (Decean) the varieties used for hookah chuttar (which resemble large sized body) bodhs and trusted cherotis are termed Zarda and Dess. The leaves of Zarda are about 14 inches to 16 inches long and 6 inches broad thin to medium textured yellowish to light brown in colour and mild in strength. The variety however is not important since it occupies only about 10 per cent of the tobacco area in the State. The Dess variety which occupies 90 per cent of the area has two sub types one having long narrow leaf about 20 in in to 24 inches in length and 6 inches in breadth, the plant growing to a height of about 3 feet and the other with short and broad leaf about 12 inches to 14 inches long and 8 inches broad the plant growing to a height of about 2 feet. The cured leaf is dark brown in colour medium in texture and strong and the plant of the strong large the strong and the strong the strong in the strong and the strong in the strong in the strong in the strong and the strong in the strong in the strong the strong in the strong to the strong in th

(b) \ Rustica - The principal varieties are Calcuttya Gobbi Peshauari Motihari and Vilayati

Calcuttya or Calcuttua is grown mainly in the Punjab Delhi and the United Provinces. The enred leaf is medium to thick and coarse in texture greenish brown in colour and strong and pungent in flavour. The length of the leaf is from 6 inches to 12 inches and the breadth from 3 inches to 6 inches or more. The nectine content is about 33 per cent. While the ash contents are about 23 per cent. This variety is also grown to a small extent in the Kaira district of the Bombay Presidency.

Gobh: grown in the Punjab is similar to Calcuttya except that the plant is smaller and the leaves broader and stronger

The Peshauan (also called Patha Peshauan) variety is grown the North West Frontier Province The circle leaf is greenish brown in colour, thick and coarse in texture and stronger and more pungent in flavour than Calcuttya The length of the leaf variethetwen 7 inches to 12 unders and the hreadth 3 miches to 9 under The average meotine and ash contents are about 4 32 and 25 68 per cent respectively

Motihari, grown in north Bengal, is considered to he the strong est hookah tohacco The leaf is greenish brown in colour, thick and wrinkled in texture and strong in flavour. The length is about 10 to 15 mches while the breadth ranges from 6 mches to 12 inches The picotine and ash contents are about 6 10 per cent and 22 35 per cent respectively Motihars of Bengal is of two kinds named in accordance with the method of spreading the leaves after curing, Melarat (leaves spread) and Jorapat (leaves not spread) Better quality leaves (usually middle leaves) of Melapat are used for chewing, while the rest and the whole of Jorapat are used for hookah. The sand leaves of Motham are called Bispat which is used in the preparation of mild hookah. The Motthart variety is also grown in Assam and Bihar In Assam it is also called Vatihar, Vilayati, Man or Hamahu In Bihar Votikari is grown almost entirely in the Purnea district The Wotthers grown in Assam and Bihar is considered to he less strong and less thick in texture than that of Bengal The plant and the leaf are similar to Votihars, but the cured leaf of Vilauats is somewhat smaller and develops a darker colour than Motihari

(11) Cheuing and snuff tupes -(a) A Tabacum -There is no variety grown to any appreciable extent solely for chewing or snuff in any part of India except in the North West Frontier Province where to some extent a variety is grown for shuff alone Generally the same variety is consumed in a number of forms. Thus the Desi variety grown in Bihar is used for hookah, chewing and to some extent for eigarettes The Desi tohacco of Assam and United Pro vinces and the Jat: of Bengal are also used for chewing The tohacco grown in Mysore State is used partly for chewing suuff and bidis Generally leaf with medium to thick texture and pungent aroma is selected for chewing and suuff Colour plays a less dominant part, hut for snuff a darker coloured leaf is selected presumably as an indication of strength. There are however certain varieties which are used only for chewing and snuff. Thus the Puchakkad tohacco grown in the South Kanara district of Madras is used only for chewing and snuff (Puchakkad heing the name of a village) The leaf is dark brown in colour medium textured about 23 inches to 26 inches long and about 6 inches broad Meenampalayam (another village name) tobacco grown in Combatore district is considered to he one of the hest chewing tobaccos in South India The leaf is dark prown in colonr with a whitish bloom thick in texture, about 23 inches to '6 inches long and 9 inches to 12 inches broad with pungent taste The Kali Chopadia and Jud; tohaccos grown in Gujerat are also used largely for chewing and to a small extent for snuff. The leaf of Kalı Chopadia is almost black in colour, thick in *exture, over 15 inches long and 6 inches to 9 inches broad. The Judi is brown in

colour medium in texture 7 inches to 12 inches long and 3 inches to 6 inches broad. Both varieties are strong and pungent

(b) N Rustica—Outside the North West Frontier Province no variety is grown solely for chewing or smill. In that province, however Nasuari is grown for smill alone. Its cured leaf is greenish brown in colour their in texture and strong in aroma. Elsewhere leaves well developed and thick in texture with pungent aroma and hiting taste from Motil ari and Vilayati varieties and sometimes from Calcuttya are selected for chewing and smill. The cheaper grades of smill are usually made from the tobacco dust of any variety.

(5) QUANTITY BETAINED BY CULTIVATORS

In the absence of any dependable farm records it is difficult to estimate the amount of tohacco retained by the cultivators for their domestic use. Unlike the crops like wheat jouar and groundnuts payment of wages in kind for the work done on tobacco fields is rare, but permaent servants engaged on tobacco farms do get some quantity of tobacco annually for their personal use at the time of harvest Indeltedieness has little influence on the quantity retained by cultivators as the proportion of the total crop kept back for domestic use is small in tracts where the tohacco crop forms a main item of each income from farming. In other areas where tobacco is grown in small patches and as such mainly for cultivators own use indebtedness plays practically no just on the quantity retained on the holding

Unless grown on a verstoall area the grower generally keeps only inferior tobacco and rejections for his personal use No tobacco is retained by him for manufacture and sale of any tobacco product to any appreciable extent. No eigarette tobacco is retained for domestic use.

The proportion of the crop retained varies in accordance with variations in the size of tobacco crop grown by individual cultivators and as such from farm to farm. Under the circumstances any estimate of the amount of tobacco retuined on cultivators holdings can be at hest only a rough approximation.

In Bengal where the crop forms an important source of eash medome in the tobacco producing areas the quantity retained on holdings comes to 11 per cent of the total production. On the other hand in Bhar and Orisas where the grovers tobacco fields are smaller the proportion comes to 6.25 per cent. In Bombay the proportion is still larger ris. 110 per cent. While in Madras the average quantity estimated as retained comes to about 10.2 per cent of the production. In the C.P. and Berar tobacco is grown as a gardien erop in small areas ranging from 0.25 to 1 are and as such the proportion of the crop retained by growers comes to about 90 per cent. In Assan the proportion is 99 per cent while the figures given for the U.P. Punjab N.W.F.P. and Sind come to 3.0 per cent. 197 per cent. 49 per cent. and 2.4 per cent respectively. In Barods about 9.5 ner cent of the production is retained and the proportion if Hyderabad State is 3.4 per cent. the proportion of Mysore Kashmir.

and Patiala heing 1 per cent., 5 per cent., and 40 per cent, respec-

Making allowance for all these variations it would appear that about 43 200 tons or 75 per cent, of the total average production of raw tobacco in India are retained on the cultivators boldings for domestic use. The balance may be reckoned as the quantity put on the market.

The proportion of the crop retained for domestic use on farms in Burma approximately comes to shout 675 tens or 15 per cent of the average annual production, the halance being put on the market for sale

(6) SEASONAL VARIATION IN THE FLOW OF MARKET SUPPLIES.

Except in the case of Virginia tobacco grown in Mysore and in the UP tobacco is normally a cold weather crop though the periods of sowing and harvesting vary considerably from province to province and in accordance with the type of tobacco grown. The normal periods of sowing transplantine harvesting and marketing of differ ent types grown in important areas in India and Burma are given in Appendix X.

The hulk of the tobacco growers are small farmers who dispose of their crop immediately after harvest. It is estimated that more than three fifths of the tohacco crop produced in India finds its way to the markets in the period from February to July If not properly stored the quality of tobacco deteriorates considerably during the mon oon and since few grovers have adequate storage facilities for storing their tobacco the great majority prefer to sell their grop hefore the advent of monsoon. Even in the case of those who can afford to store and bold over the erop transport hy carts to nearest market or railway station is extremely risky since a small shower during transport hy cart might sooil the quality of a whole cartload of tobacco Hence such people wait till after the early mon soon period is over and offer their produce for sale late in September or early in October But the proportion of farmer s crop sold so late after barrest is extremely small, probably not more than 5 per cent of the o al Conditions in the chief producing areas vary to a considerable extent and it would be best to describe them in brief ındıvıdnally

In Beneal the crop beans to flow in the market soon after harrest that is from March and continues up to October The months of maximum market supplies are May to July About 80 per cent of the crop is disposed of by farmers during this period.

In the Charotar area of the Bombav Presidency the earliest tools or op 15 ready for the market late in December and from this time onwards supplies of newly harvested tobacco crop begin to arrive in the market. The largest supplies are available with the growers during the months of March and April In May these supplies been to decline and by the end of June the farmers in this area.

have sold almost the whole of their tobaceo erop excepting in the case of a few well to do growers. With the commencement of mon soon late in June the flow of snpphes from the villages ceases almost completely. One of the reasons is the very unsatisfactory condition or roads in this trict during the rains where some of the villages become totally inaccessible for several weeks during the monsoon After the close of the monsoon from October the small remnants of tobaceo stock a begin to more until the new erop is ready again.

In the Appain area mari et supplies are greatest in February and March (see diugram facing page 29). From April the arrivals begin to decline and by Jane they drop almost to nothing in the important. Single and Jan singpur mittels. From this time onwards practically in supplies are received in these two mint estall October. In the Nipam marl et however which is one of the most important tobacco marl ets in Indir small supplies are received even durin, the mon o n months. The tollowing are the figures of arrivals in Vapam mittel in 1934.

8 III Arbant militel III 1994	
Arricals of tobacco carts.	ın Aspanı market
January	1 065
February	ə 276
March	4 849
April	2 865
Max	1 493
une	347
July	197
August	110
September	278
October	513
November	248
December	569

Thus over four fifths of the arrivals occur during February to May the months of maximum supplies being February and March

In the Guntur area of the Madrus Presidency the virginia ege rette tobacco is cured in Janutry and February and over 90 per cent is sold off by the growers by the end of March to exportes and manufacturers. The remaining small proportion is held over by big growers who export to foreign countries on their own account. The country eigenfect to those on sold off to merchants exporters and manufacturers from April to Jinne. There are extremely few growers who retain or export this type of eigenfect before on their own account. Some time elapses before the tobacco purchased from growers is exported outside the Guntur district on account of the

^{*}One cart contains approximately 18 maunds of tobacco

time taken in processing the less before export or sale to manufac turers. The average monthly outward traffic from Guntur district is indicated below -

Approximate monthly outward traffic in unmanufactured tobacco from Guntur district

(In	Maunds	,

(AM DESCRIP	,
January	20 465
February	20 153
March	50 785
April	29 046
Max	43 445
June	33 112
July	32 723
August	41 406
September	39 614
October	42 378
November	10 /20
December	8 393

Thus about one third of the outward traffic occurs in March to May when almost the only exports are of Virginia cigarette tobacco and another one third during August to October which correspond to exports of country cigarette tobacco to Japan and other countries The outward traffic in November and December consists almost entirely of country engarette tobacco while the exports during Janu ary February and June and July are partly of virginia and partly of country consrette tobacco

In Bihar the harvesting commences in the first week of Febru arv and goes on till the end of March the work being in full swing about the third week of February The curing of the leaf starts immediately after harvest and continues for 4 to 6 weeks. The cured crop commences to come in the market by about the end of March and the maximum supplies in the market are available from about the middle of May to the middle of June Over four fifths of the crop is sold by the growers before the middle of June when the monsoon sets in The remaining crop is offered for sale by the end of early monsoon as end of September or early October

In other areas also sale within two or three months after harvest is the commonest practice. In Assam about three fourths of the crop is sold in May to July and the remaining quantity during the following two or three months. In some districts particularly in

Goaipara there are few growers who hold over small surpluses which are sold in small lots say 2 to 5 seers in the local markets whenever intey are in need for eash for buying household requirements like oil salt fish etc. In the C P and Berar most of the crop being retained by growers for domestic use there is no regular market for local tobacco. The small surplus is sold in village hazars mostly in October and November. The most common practice with the growers in the Punjab is to soil the crop in one lot immediately after harvest. Ahout 80 to 90 per cent of the tobacco is disposed of by the farmers from June to October. In the U P also the same practice is followed and over three fourths of the crop is sold from May to August Trade in tobacco during these four months is quite brisk and figures of outward traffic in the principal tobacco markets in the province (Scoron Cawipore Farrichabada and Hargaon), show that over half the average annual outward bookings in tobacco occur during this period. The months of high market supplies are June and July

In Baroda State the marketing of growers tohacco commences in January and extends till about the middle of June April and May are the months of maximum market supplies and it is estimated that about 20 per cent of the produce is sold off by the farmers before the end of May The remaining portion cemes in the market early in June and again after cessation of the early moreon by about the end of September and continues till early December In Hyderabad State about 25 per cent of the tohacco is marketed by oducers during the period March to September the months of high market supplies being April and May About three fourths of the crop in Mysore State is sold off during February to June the movement by rail at important exporting centres lile Krishnarajanagar during those five months been about two thirds of the annual traffic The small quantity of cigarette tobacco produced in the State is sold in December and January

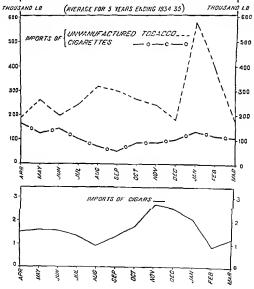
In Burma almost all the growers sell their erop immediately at the harvest during the four post harvest months. April to July though the sales commence by about the end of March. Figures of outward traffic at three important markets show that about two thirds of the average annual exports are sent out by rail during the four months. April to July.

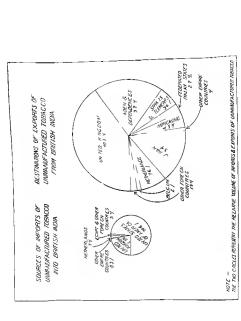
B--Imports

- (1) IMPORTS BY SEA THROUGH BRITISH PORTS
- (a) Total tobacco—Imports into India consist of unmanufac ture I tobacco cigaretties eigars manufactured tohacco for pipes and cigarettes and other sorts of tohacco products (see Appendix XI)

The total average annual imports into India and Burma of all types of unmanufactured and manufactured tobacco are 48 million lb valued at 95 3 lakbs of rupees Since 1930 31 the general

AVERAGE MONTHLY IMPORTS INTO BRITISH INDIA & BURMA.





frend of imports has been on the decline although 1936-37 and 1937-38 recorded a rise. The following are the figures —

Imports of unmanufactured and manufactured tobacco in India and Rurma

Period.	Quantity (million 1b)	\alue (lakhs of rupees)
Pre war average	3 2	71 1
War average	3 6	132 4
Post war average	63	222 9
1925-26 to 1979 30 average	10 2	261 0
1930 31 to 1934 35 average	1.8	90 3
193>-35	29	61 8
1936 37	4.3	80 8
1937 38	4 3	84.4

It will be apparent that as compared with the imports during the period immediately after the war, the tohacco imports during the quinquennum 1930 31 to 1934-35 declined by 238 per cent in quantity and 572 per cent in value. As compared with the predepression average (1925 26 to 1929 30) the fall has been 53 per cent in quantity and 63 per cent in value. The disproportionately large decline in value is explained by the fact that during the period 1930 31 to 1934 35 the imports of the more expensive items like eightesters eight and pipe tobaccos declined to a larger extent than those of immanufactured tobacco.

The average proportion of the imports of different types of tobacco and tohacco products is as follows --

Proportion of imports of different types of tobacco and tobacco

Туре	For 5 years ending 1929 30		For 5 years ending 1934 35	
	Quantity	Value	Quantity	Value
	Per cent	Per cent	Per cent	Per cent
Unmanufactured tobacco Cigarettes Cigares Pipo and cut tobaccos Other sorts of manufactured tobacco	50 9 46 0 0 3 2 4 0 4	15 7 77 2 0 7 5 8 0 6	69 6 27 2 0 4 1 9 0 9	39 3 51 5 1 0 6 2 2 0
Total	100 0	100 0	100 0	100 0

The enormous fall in the proportion of imported eigarettes to the total imports and the rise in the proportion of imports of unmanufactured tobacco are apparent. About 97 per cent of the quantity imported consisted of unmanufactured tohacco and eigarettes only, during both the quanquennums, while the value of these two types ranged from 91 to 93 per cent of the total imports

(b) I numanufactured tobacco—(t) Quantity and value—Unmanufactured tobacco is the most important item in the total quantity of imports. The annual average imports of unmanufactured tobacco amount to about 335 million lb valued at about 375 lakhs of rupees.

The most important ports of arrivals are Madras and Calcutta Bombay imports small quantities the average annual imports being about 186 000 lb. Karaebi takes the smallest quantity, the imports in 1934 35 being only 62 lb. Imports into Rangoon from foreign countries are small and occasional

(11) Sources —The average proportion of imports received from different countries is as follows --

Proportion of imports of unmanufactured tobacco from different

Country	Quantity	Value		
	Per cent	Per cent		
United Kingdom	21 9	19 0		
Other Empire countries	0.3	0 2		
Netherlands	1-	2.3		
Egypt	0.2	0 3		
United States of America	74 6	76 9		
Other foreign countries	1 3	13		
Total	100 0	100 0		

Three fourths of the imported unmanufactured tobacco is there fore received from the U S A while imports from the United King-dom—mostly in the form of reexports of American tobacco-leaf from that country—account for about one fifth of the total Phese two sources therefore together constitute about 96 per cent of the imports (see Appendix XII and diagram facing page 41)

The following were the imports from the United Kingdom and the U S A during the last six years —

Year		Umted Kingdom	USA	
		Lb	Lb	
1930 31		16 507	1,484,800	
1931 32		146 507	2,484,397	
1932 33		349 558	4,652,527	
1933 34		2,021,805	,2,091,954	
1934-35		1,133 075	1,762,757	
	Average	733,500	2,495 287	
1935-36		358,144	1,500,609	
1936 37		169 991	3,080,713	
1937 38		37,668	2,985,623	

It will be seen that during this period imports from both the countries increased till 1932 33 but during the next year there was a precipitate rise in the imports from the United Kingdom as against a similar fall in the imports from the U S A In 1934 35 and 1935 36 the imports from both the countries declined, the decline in the imports from the United Kingdom being most noticeable. The years 1936 37 and 1937-38 recorded a further precipitate decline in the imports from the United Kingdom. In 1936 37 the imports from the United States of America were more than double those in 1933 36 but in 1937 38 there was a small decline.

The unports from the United Kingdom and the U S A are the leaf received from the Netherlands is used mostly in the manifacture of cigars while that from Egypt is exclusively used in making cigarettes. It is estimated that over 95 per cent of the total inaports are used in the manifacture of cigarettes.

(m) Periodicity and trend.—January and February are the member of high imports and together account for 29 per cent of the average annual imports (see Appendux XIII and the diagram facing page 40) Imports during July to September are fairly high and account for about 26 per cent of the total March, April, June and December, are months of low imports There has been a perceptible decline in the imports of unmanufactured tobacco during the past 12 years as will be evident from the following figures and the diagram facing this page

Imports of unmanufactured tobacco unto India and Burma

Period		Quantity	Value	
		(Millions lb)	(Lakhs of rupees)	
Pre war average		0.7	4 2	
War average		0 3 1 7	3 6 2 1	
Post war average		17	2 1	
1925 26 to 1929 30 average		5 2	40 9	
1930 31		1 6 2 8 5 1	14.4	
1931 32		2.8	29 9	
1932 23	1	51	62 3	
1933 34		4.2	473	
1934 35		3.0	33 6	
Average		3 3	37 5	
1935 36		1.0	27 8	
1936 37		1 9 3 3 3 1	44 8	
1937 38		3 1	41.5	

It will be seen that though the quantitative imports during the past eight years have been lower than those during the pre depression period (five years ending 1929 30), they are still high when compared with the pre war, war and post war averages

It has already been noted above that 98 per cent of the imports into India and Bnima are received from the United King don and the U S A. The United Kingdom does not produce any tobacco and almost all the unmanufactured tohacco received from that country is American The American tobacco is used in this country is American. The American tobacco is used in this country is a thing to the country indices which has considerably increased during the post war years. The following figures show the rise in the imports from the U S A since the pre war years.

Imports of unmanufactured tobacco from the U.S. A.

importe of miniating actuates research from	far average 003 ost war average 10
	Million lb
Pre war average	0.3
War average	0 03
Post war average	10
Pre depression average	54
Average for 5 years ending 1934 25	25

The precipitate fall in the total imports in 1930 31 may be accounted for by the fact that the year was the first year of depression

Facing page 280 240 200 20 40 THOUSAND (B. MANUFACTURED TOBACCO FOR PIPES ANNUAL IMPORTS OF CIGARS AND AND CIGARETTES INTO BRITISH INDIA & BURMA. (1925-26 TO 1936-37) TOBACCO FOR PIPES AND CIGARETTES THOUSAND CC ġ 20 200 .70 280 60 240 90 40 20 UNYMANUFACTURED TOBACCO --- LAKH & ANNUAL IMPORTS OF UNMANUFA--CTURED TOBACCO & CIGARETTES INTO BRITISH INDIA & BURMA (1925-26 TO 1936-37) 1852 26

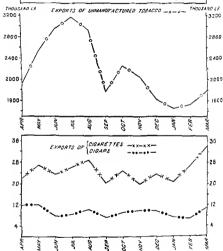
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AVERAGE MONTHLY EXPORTS FROM BRITISH INDIA & BURMA.

(AVERAGE FOR 5 YEARS ENDING 193435)



and also due to the movement within the country to boycott foreign goods The imports in 1932 33 suddenly jumped to 51 million lb from 28 million lh in 1931 32 due entirely to the increase in the manufacture of cigarettes within the country. The number of cigarette factories in 1929 was 9 which increased to 22 in 1935 may further be mentioned that British manufacturers have been manufacturing for local consumption the popular English brands of eigarettes in their Indian factories for some years past. The fall in 1934-35 and 1935 36 was partly due to the increased production of virginia tobacco in India and to the increase in the import duty from 1934-30 Before this year the import duty on unmanufactured tobacco was Rs 180 per lb, but the Indian Finance Act of 1934 increased it to Rs 3-40 per lb (standard) and Rs 2 12 0 per lh (preferential provided the article is the produce of either the United Kingdom or a British Colony) Generally it may he stated that the imports in any particular year are affected by the stocks held and the demand for manufacture

(c) Cugarettes—(i) Quantity and value—During the 5 years ending 1934-35, imports of eigerettes accounted for 272 per cent in quantity and 515 per cent in value of the total imports of tobacco and tobacco products The annual average import of eigarettes was 13 million In valued at 49 1 lakbs of rupees

All the chief ports in the martime provinces of India import cigarettes, the largest imports being into Calentia followed hv Bom bay, Karachi Madras and Rangoon in the order of importance

(n) Sources—The proportion of the average annual imports received from different countries is shown in the following table— Proportion of imports of engageties from different countries

Comtry Quantity Value Per cent Per cent United Kingdom 88 5 93 7 Other Empire countries 1 1 China (excluding Hongkong and Macao) 0 7 Japan USA 13 0 5 09 Other foreign countries 100 0 200 O Total

Thus about 90 per cent of the eigerettes are received from the binted Kingdom (see Appendix XIV) The following were the imports of eigerettes from the United Kingdom

Imports of eigarettes from the United Kingdom

3 ear	Quantity	1 sine	
	(fb.)	(P*)	
1930-31	2 640 434 1 150 6.0	1 17 94,574	
1931-32	720 790	26.30 716	
1932-33	474.934	16 61 663	
1933-34	7	20 63 699	
1934-35	ر مدمد	20 63 639	
Average	11544	4F 01 036	
193,436	50,293	° 63.0.5	
1936-3"	8 6 957	20 15 510	
1937-39	1 039 04"	3u 43 495	

It will be seen that imports of eigerettes from the U K have steadily declined from 1930-31 except for a small and progressive recover from 1934-35 ouvards

(iii) Periolicity and trend—On an average, imports are high during April to July, the period accounting for about \$1\$ per cent of the average annual imports. Angust to November are months of low imports the lowest imports strailly occurring in the month of September. The period December to March accounts for 35 per cent of the average annual imports (see Appendix XIII and the diagram facing page 40).

As is crident from the diagram facing page 44 imports of cigarettes have enormously declined during the last twelve years and the present imports are far below even the pre-war level as can be seen from the following figures —

Imports of eigarettes by sea into India and Burma

Period.	Quant ty	Value	
	(Million fb)	(Lakla of rupees)	
Pre-wat avera~	1 -3	52 74	
War avera -	2 62	1 12 -9	
Post war avera *	4 13	1 -9 68	
192,-2f to 1/2) 30 a temps	4 68	2 01 49	
1200-21	3.00	129 43	
1931 *2	1 44	59 -8	
1932-33	9.63	25 95	
1933-24	0.53	19 06	
1934-35	9 61	22 21	
Average	1 31	49 10	
1935-26	0.83	28 10	
926-37	0.9*	31 60	
92" 28	1 103	37 22	

The increase in imports during post war period was remark able due to increasing popularity of eigarette smoking in India in common with many other countries. During the pre-depression period the imports increased still further but from 1930 31 there has been a definite and sudden fall and the imports during the past 7 years bare been far below the pre-war level

This decline has been in no way due to the fall in the popularity of eigarettes. On the contrary the demand for eigarettes is still on the increase. And yet the imports of both the unmanustactured tobacco and eigarettes are falling. In this connection it will be worth considering the imports of eigarettes and unmanustactured tobacco together.

Imports of eigarettes and of unmanufactured tobacco
(In thousands of lb)

Period	Cigarottes	Unmanu factured tobacco	Total
Pre war average	1 "31	736	2 467
War average	2 623	370	2 948
Post war average	4 199	1 686	5 815
19% % to 19% 30 average	4 684	5 180	9 866
1930 31 to 1934 35 average	1 307	3 347	4 604
193a 36	831	1971	2 75
1936-37	919	3 983	4 %0 >
1937 33	1 084	3 061	4 145

The increasing imports of eigenfelts and unmanufactured tobacco till the commencement of depression were due entirely to the rising demand for eigenfelts. The fall from 1930-31 onwards is accounted by the fact that since that year larger quantities of indian tobacco are being used in the manufacture of eigenfelts. This has been made possible by the increase in the production of Virginal tobacco are in rewer of the recent increasing imports of an manufactured tobacco it is evident that there is immediate scope for a further rapid increase in the production of eigenfelt left in India

The sudden fall in the imports in 1939 31 was due to trade depression and boycott of foreign goods but the subsequent decline was almost entirely due to the increase in the local manufacture of cigarettes. The progressive small increase in the imports of cigarettes from 1934-35 has been due to the revision of import duty on cigarettes. Under the import duties in force up to the end of 1933-34 cigarettes pand a duty of Rs 880 per thousand on cigarettes valued at not more than Rs 10-30 per thousand and Rs 19-0-0 per thousand when the value exceeded Rs 10-8-0 per Linake

thousand This high duty was to a large extent responsible for diverting to India the manufacture of many popular brands of eigenveites which were formerly imported from England. The Indian Finance Act of 1934 revised the rate of duty on eigenveites to 25 per ent ad adorem in addition to either Rs 8.20 per thousand or Rs 3.40 per lb whichever is higher. This revision of duty in effect addressely affected the cheaper varieties of digestrest imported from abroad thus giving an advantage to the cheaper brands of eigenveite made out of Indian grown tobacco while providing for the more expensive brands of eigenveites manufactured out of imported tobacco the shelter of the ordinary revenue duty at rates specified above.

- (d) Cigars—(i) Quantity and value—Cigars from about 04 per cent in quantity and 10 per cent in value of total imports The average annual imports are small being 19 533 lb valued at Rs 96 607
- (11) Sources —The following statement shows the relative importance of the different countries which export eigers to India (See Appendix XV)

Average proportion of imports of eigers into India and Burma from

wigorest countries						
Country	Quantity per cent	Value per cent				
United Kindom Other Empire countries Activitiands Philippines Other foreign countries	4 3 6 1 15 9 64 7 9 0	12 1 3 8 22 7 51 9 9 5				
Total	100 0	100 0				

Netherlands and Philippines therefore supply about four fifths of the cigars imported in the country. The following were the imports from these two countries during the six years ending 1935 36

Imports of cigars from Netherlands and Philippines

Year		Netherlands lb	Philippines 1b
1930 31		6 062	21 31:
1931 32		3 306	14 071
1932 33		2 301	10 628
1933 34		2 109	9 720
1934 35		1 761	7 48
	Average	3 108	12 644
13,536		2 418	8 704

The imports from both the countries have therefore continuously declined, except for a slight recovery in 1935-36

The imports of cigars take place mostly through the ports of Calcutta and Bombay, but Rangoon Madras and Karachi also import small quantities

(iii) Periodicity and trend—November to January is the period of high imports and these three months account for over 37 per cent of the average annual imports, (see Appendix XIII and the diagram facing page 40) August and Fehruary are months of low imports.

There has been a continuous decline in the imports of cigars since the pre-war period and the imports in 1936-37 were only about a sixth of the average annual imports during the pre-war period

Total imports of eigars in India and Burma

Period.	Quantity	Value
	(thousand lb)	(thousand Rs.)
Pre-war average	79	3 30
War average	52	2 40
Post war average	45	2,76
1925 26 to 1929 30 average	37	1 84
1930 31	33	1 60
1931-32	21	1 04
1932 33	15	85
1933 34	17	74
1934-35	12	61
Average	20	97
1935-36	13	70
1936 37	14	61
1937 38	22	71

Except for the small increase over the previous years in 1933 34 and from 1930 36 onwards, the trend of imports has been definitely downwards (see chagram facing page 44). The consumption of cigars has considerably declined in most of the principal countries of the world stince after the war and India has not heen an exception. There is a high revenue duty of 112½ per cent ad valorem on imported eights.

(e) Manufactured tobacco for pipes and cigareties—(i) Quantity and value—Manufactured tobacco for pipes and cigareties forms about 19 per cent in quantity and 62 per cent in value of the total average imports of tobacco and tobacco products The average annual imports are 55,931 by valued at Rs 5,88,221

(11) Sources -

Average proportion of the imports of manufactured pipe and

cigarette toogcco from aifferent countries					
Country	Quantity	Value			
	Per cent	Per cent			
United Kingdom	83 8	87 6			
Australia	8 2	6 3			
Other Empire countries	0 2	01			
United States of America	7 7	6-0			
Other foreign countries	0.1				

The United Kingdom is this by far the most important source of this try of manufactured tobacco but imports from this source also hare shown an enormous decrease in recent years owing to the transfer of manufacture to India and the decline in pipe smoking. The actual imports from U.K. during the eight years ending 1937 33 were as follows (see Appendix XVI)

Imports of manufactured tobacco for pipes and eigarettes from the United Kingdom

Year		Quantity	Value
		Ib	Rs
1930 31		168 672	9 96 073
1931 32		115,126	7,87,853
1932 33		35 656	2,37,098
1933 34		37,565	2,36,345
1934 35		47,021	3,17 746
	Average	80,408	5 15,023
1935 36		35,478	2 43 82
1936 37		36 972	1 63 169
1937 38	 	37,981	2,50,321

Except for a small improvement in 1933 34, 1934-35, 1936-37 and 1937-38, the imports have declined and in 1937-38 were not even one fourth of the imports in 1930 31

On an average more than half the total imports from all coun tries are received through the ports of Bengal. Burma receives about one-third the quantity imported by Bengal ports, while imports through Bomhay and Karachi are small being about 12 000 lh, at each port

(m) Periodicity and trend—Except during September and October, the average monthly imports range from 7,400 lb to 9,600 lb per month (see Appendix XIII) In September and October the range of imports is between five to six thousand pounds per month March and April are months of large imports and together account for about a fifth of the average annual imports

Figures of imports of manufactured tobacco for pipes and legarettes are heing separately recorded only from 1920-21 and hence comparison of the present imports with pre-war and war averages is not possible. The following figures and the diagram faing page 44 show the trend of imports during the last 12 years.

Total imports of manufactured tobacco for pipes and cigarettes in

Period	Quantity	Value
	(thousand lb)	(thouand Rs)
1925 26 to 1929 30 average	216	15 06
1930 31	190	10,89
1931 32	129	8 54
1932 33	49	3,06
1933 34	50	3 00
1934-35	62	3,91
Average	96	5,88
1935-36	51	3 20
1936-37	58	2 36
1937 38	59	3 45

The enormous decline in the imports is apparent, the average annual imports during the five years ending 1934-35 being only about a little more than a third of the average annual imports during the quinquennum ending 1929-30. The demand for this type of tobacco has fallen during the last 12 years due to the influx of cheaper brands of eigarettes and the fall in favour of the use of pipes and "zg-zag" paper used for hand made eigarettes

- (f) Other sorts of meanufactured tobacco—The other sorts of anufactured tobacco consist mainly of snutf, clewing tobacco and smoking tobacco, other than the pipe and eigeretic tobacco. The average annual quantity imported is about 42,000 lb valued at Rs 1,87,000 About 85 per cent of the imports are received from the United Kingdom, and 12 per cent from the United Kingdom, and 12 per cent from any definite trend and during the past seven years have ranged from 33,000 lb to 47,000 lb per year (see Appendix XI)
- (g) Import duty—There is a revenue duty on unmanufactured and manufactured tobacco mopored into British India, unmanufact utred tobacco coming under Empire preference The following state ment shows the existing rates of import duty current since 1934 35—

Rates of import duty on unmanufactured and manufactured

	Standard rate of	Preferential rate of duty if the article is the produce or manufacture of—		
_	duty	United Kingdom	British colony	
1 Tobacco Unmanufac tured*	Ra 3 4 0 per lb	t	Rs 2 12 0 per lb	
2 Cigarettes	25% ad valorem and in addition either Re 8 2 0 per thousand or Re 3 4 0 per lb which ever is higher			
3 Cigare	1121% ad salorem	ļ	.,	
4 Tobacco manufactur ed not otherwise speci fied	Rs 3 12 0 per lb			

(2) IMPORTS BY LAND FRONTIER ROUTES.

Fairly large quantities almost wholls unmanufactured tobacco used for hookals and smoking are imported through land frontier routes adjacent to the N W F P. Kashmir, U F. Bhar, Bengal. Assam and Burna (see Appendices XVII and XVIII) The following figures indicate the quantities imported into India and Burna.

^{*} Tobacco kaf for the manufacture of eigas when proved to have been imported for use in a eigar factory is liable to duty at Rs 2 per lb (Stindard) and Rs 180 per lb (Preferential)

tSince tobacco is not produced in the United Kingdom, the question of preference on unmanufactured tobacco imported from the United Kingdom does, not arise

Imports through land frontier routes (In thousands of lb.)

Period	India	Burma	
1925 26 to 19 *9 30 average	10 837	456	
1930-31	9 820	259	
1931 32	9 238	203	
193 ' 33	11 239	275	
1933 34	7,629	332	
1934-35	a 793	118	
• Average	8,744	237	
1935-36	9 625	90	
1936-37	8 214	125	

The imports have thus declined by about 20 per cent in India and 48 per cent, in Burna during the 5 vesir ending 1934.35 as compared with the quinquennial average ending 1929.30 but later years again show a rising tendency. Regarding the periodicity of these imports it is observed that imports into India commence to rise in March till they reach their maximum in June. The imports during the three months Max to July, constitute about 44 per cent. of the average annual imports. From August there is a continuous decline till February. In Burna June and July are the months of high imports and together contribute about 44 per cent of the average annual imports. June is the month of maximum imports, accounting for over a fourth of the annual imports while the months of low imports are October and Vovember.

(3) IMPORTS BY SEA THROUGH KATHIAWAR AND TRAVANCORE PORTS

Imports through hathiawar ports are small and consist mainly of crearettes. The following figures show the average annual imports (average for 5 years ending 1933-36)

		20
Unmanufactured tobacco		11
Cigarettes		76 109
Cigare		822
Tobacco for pipes and eigarettes		95
	Total	77 037

Travancore imports only unmanufactured tobacco and ciga returns the averages (for two years 1934 35 and 1935 36) of annual quantities imported being as below —

		lb
Unmanufactured tobacco		1 508 104
Cigarettes		689
	Total	1 508 784

All the unmanufactured tobacco imported into Transaccor from abroad comes from Ceylon and is a special type of chewing leaf extremely popular in Transacore and Cochim States. Only the Travancore Government is permitted to import this tobacco from Ceylon subject to a maximum import of 5745 candles (1 candles 600 lb) in one Malayalam official vear (August to July) and amport duti of Rs 135 per candly. An quantity imported in excess of this figure is hable to duty at the rate. of Rs 900 per candly.

This type of tobact is called Jafina as it is imported direct by sea from Jafina in Ceylon. The principal villages in Jafina from where Transancore gets its supply are that type in the imports are confined almost wholly to six months from October to March because of unfavourable weather conditions in sea during the remaining period of the year for schooners which transport tobaco from Ceylon to Transance. The variet closely resembles the Meenampdaly am tobace grown in Combatore district of Madras in physical characteristies and it will be worth unestigating at least two aspects to replace Jafina. (1) whether the taste of Meenampdalyam cannot be changed to that of Jafina by transferring the micro organisms that are present in Jafina to Meenampalayam tobacco, and (2) which therefore the state of the conditions prevaling in India.

(4) IMPORTS THROUGH FOREIGN POSSESSIONS

Imports through the ports of Foreign Possessions (French and Portuguese) in India are small and almost negligible. The average annual imports into the Prench Possessions from foreign countries are about 14 000 lb of tobacco and tobacco products. The latest figures available (1933) for the Portuguese Possessions indicate that the imports of tobacco and tobacco products are a little over a mil lon lb of which over 90 per cent are imported from Bombay The official figures of imports into British India and Indian States from these two Foreign Possessions are almost nil.

(5) TOTAL IMPORTS INTO INDIA AND BURMA BY SEA AND LAND

The average annual total imports of different types of unmanufactured and munufactured tobacco into India and Burma by sea and land are indicated in the following statement

Average annual imports into India and Burma by sea and land (In thousands)

220000			(In thou	restates 1				
	British p	orts	Land Fr	ont er	Trave	war and peore ports	Total	
Туре	135 [Rs	n _b	Rs	1ь	Ra	1Ъ	Rs
			8 981	8 73*	1 508	5 15	13 836	51 30
Unmanufactured Tobacco.	3 347	37 47	8 304		1 7	53	1 1 384	4363
Cigarettes	1 307	49 10	1		, 1	2	20	99
Cigara	19	81	1	l		1	96	5 63
Tobacco for papes and eagarettes.	96	5 88		1	1		42	1 87
Other sorts of manu factured tobacco.	42	187		<u> </u>		<u> </u>	15 3 B	1 09 72
Total	4,811							

[•]Values of imports by land front or routes are not declared and hence these imports are valued as an average price [2a. 5 per mained) rolling in areas where those imports occur.

C-Exports

(1) EXPORTS BY SEA THROUGH BRITISH PORTS

 (a) Total tobacco —Exports of tobacco from India and Burma convist principally of unmanufactured tobacco eigars and eigarettes (see Appendix XIX)

(see Appendix XIX)

The total average annual exports of all types of manufactured and unmanufactured tobacco are 26.86 million lb valued at 93.37 lakhs of rupes. The following figures indicate the trend of these

total exports —

Exports of unmanufactured and manufactured tobacco from India

and Burma

	and Burma				
Period		Quantity	Value		
		(Million 1b)	(lakhs of rupees)		
	1	22 35	36 91		
Pre war average	1	20 99	56 23		
Mar average	i	27 37	84 90		
Post war average		31 61	111 59		
1925 % to 1999 30 average		26 86	88 37		
1930 31 to 1934 35 average		29 60	9° 43		
1935 36		29 00 +9 30	92.51		
1936 37		1	116 29		
1937 38		6 4	1 116 29		

These average annual export figures indicate that the exports increased from the pre war period till 1929 30. The average annual exports during the 5 years ending 1929 30 were higher by about 41 per cent in quantity and over two hundred per cent in value over the pre war average exports. During the quinquennium ending 1931 35 the average annual exports declined by 15 per cent in veight and 21 per cent in value over the pre depression period (5 years ending 1929 30) but were higher by 20 per cent in quantity and about 140 per cent in value as compared with the pre-war average. The exports in 1937 38 were the highest during the past 12 years.

The relative proportion of the average exports of different types of tobacco and tobacco products is as follows —

Proportion of exports of different types of tobacco and tobacco products

	ducts			
Туре	For 5 years 19 9	For 5 years ending 19 9 30		rs ending 30
-76-	Quantity	Value	Quantity	Value
	%	%	%	%
Unmanufactured tobacco	96 8	93 8	96 7	94 7
Cigars	10	* 8	0 4	1 5
Cigarettes	0.8	2 9	11	2 8
Other sorts of manufactured tobacco	14	1 2	1 8	1 0
Total	100 0	100 0	100 0	100 0

The proportions have changed but slightly during the two quinquenniums in the case of unmanufactured tolaceo. The proportion of eigars dropped down to 04 from 1 in weight while that of eigarettes increased from 08 to 11 per cent Unmanufactured tobacco is b far the most important in the export trade

(b) Unmanufactured tobacco —

⁽¹⁾ Quantity and value—The annual average exports of unmanufactured tobacco are 25 97 million lb valued at 83 69 lakks of rupees

Of the average annual exports the ports from Madras Presidency export about 61 per cent of the total Bombay exports about 20 per cent while the share of the ports in Bengal and Burma comes to about 11 per cent and 8 per cent respectively (see Appendix XX)

(a) Destinations—The proportion of the average annual exports to different countries is as follows— Average proportion of exports of unmanufactured tobacco to different countries.

Country	3	Quantity	talue °o
Casted Kingdom, Adden and Dependencies Strat to Settlemental Federated Malaya States Georgiang Other Empire countries Archariands Belgnum Other Georgiang Other Carrigo countries Archariands Belgnum		40 3 19 7 5 6 2 7 4 0 1 1 10 4 7 6 1 2 1 9	46 4 23 5 6 2 3 0 1 1 2 1 1 13 3 3 3 0 6 1 4
Total	- [100 D	100 0

The Empire countries take 739 per cent in weight and 814 per cent in value of the average annual exports. Over two fiths of the quantitative exports go to the United Kingdom while Aden and Dependenues absorb another one fifth Among the foreign countries Japan and Vetherlands are important buyers and together account for 23 per cent of the average annual weight of unmanifactured tohecoe exported (see Appendix XXI and diagram facing page 41)

The following were the exports to the United Kingdom Aden and Dependencies, Japan and Netherland, during the past eight years

Exports of unmanufactured tobacco to certain countries
(In thousands of th.)

lear		United Kingdom	Aden and Depen dencies	Japan	\ether lands
1930 31		9 956	5 364	3 841	2 341
1931 32		30 626	4 42	3 00	945
1939 23		9 046	4 394	3 145	1 66
1933 34		13 *99	5 398	3 313	3 .1
1934 35		9 760	6040	J 899	140
4	e _e ray,	10 43	5 125	3 980	19
1935 36		11 ~0°	7315	5 694	1 31
1936 3		13 798	6 336	3 000	111
1937 38		1 231	7 189	° 317	1 348

These four countries take 83 per cent of the average annual exports

Indian tobacco is assuming inercasing importance in the English market and at present over one fourth of the unmanufactured tobacco imported into Britain from Empire countries is Indian During the past four years Indian virginia flue cured tobacco has been leenly demanded in the English market as will be evident from the following figures of exports to the United Kingdom —

ollowing figures of exports to the United Kingdon	1	
	Million 18	
1934 35	93	
1930 36	11.7	
1936 37	133	
1937 38	212	
1938 39 (for seven months April to October		

1938 39 (for seven months them to detailed a 29.9

Further jossibilities of expinsion of trade with the United Kingdom and other countries will be referred to in more detail ander the chapter on Demand but it is evident from the figures given above and in the foregoing table that the greatest possibilities lie in the expinsion of exports to the United Kingdom

Exports to Aden and Dependencies are also increasing from 1933 34. In 1936 37 the exports were 8.3 million ib as against 54 million ib in 1937 38 however the exports recorded a fall. Exports to Netherlands appear to be integrally but the general trend is definitely downwards. Japan has been taking larger quantities since 1933 34 but the sudden fall from 1936 37 appears to be very largely due to disturbed conditions of trade n Japan on account of the war trouble in the far eastern countries.

(iii) Periodicity and trend—On an iverage exports are high during las to August the four months accounting for about 45 per cent of the annual average exports of unmanufactured tobacco. In September the exports decline but again rise in October and November the two months accounting for 165 per cent of the annual exports. December to February are months of low exports which commence to rise in March and reach their maximum in July (see Afpendix XIII and the diagram facing page 45). Largest exports to the United Kingdom occur during last and June and the lowest in February and March. April to June are months of exports of fine cursed eigarette leaf from Madras Presidency to the United Kingdom while the season of exports to Japan which generally commences late in September is at its height in October and November and ends by about February. Exports from Bombay to Aden and Dependences are high during May to August.

Both in quality and value the present exports of unmanu factured tobiceo are considerably above the pre-war and war period average exports and it is further important to note that the exports even during the depression period are slightly higher as compared with the average exports during the post war year.

Exports of unmanufactured tobacco from India and Burma.

Period	Quantity	Value
	(Million lb)	(Lakhs of
n	20 43	rupees) 23 27
Pre-war average	24 05	41 56
War average		
Post-war average	2a 93	73 47
19% 26 to 19% 30 averam	30 61	104 57
1930 31	27 97	96 73
1931-32	20 43	80 62
1932-33	20 99	73 41
1933 34	9 21	90 13
1934 35	26 35	77 55
Average	20 97	83 69
1935-36	28 74	87 98
1936 37	28 53	87 76
1937-38	35 94	109 37

It is apparent that the exports in 1937-38 were higher than those during the pre-depression period. The trend from 1930-36 is definitely upwards. During the seven months April to October 1938 the exports to foreign countries (excluding Burma) finda excluding Burma were 36-57 million ib valued at 144-60 lakbs of rupess as against 20-67 million ib and 69-13 lakbs of rupess and 27-39 million ib and 80-50 lakbs of rupes during the corresponding period in 1936 and 1937 respectively. In this connection it will be worth considering the exports of the four martime Indian provinces and Burma to understand the relative changes that have occurred during the spat 12 years (see Appendix XX).

Exports of unmanufactured tobacco from the ports of different Indian provinces and Burma

		Durma		
19°0 26 to 19°9 30 average	1930 31 to 1931 35 average	1935-36	1936-37	1937 38
4 33	2 86	0 33	0 25	1 72
13 35	15 -9	20 03	19 41	25 91
5 So	5 20	7 28	8 32	7 19
0.05	0 02	0 01	0 03	0 00
7 03	2 10	0 99	0 52	1 10
30 61	25 97	28 74	28 53	35 94
	(M) 19°3 26 to 19°9 30 average 4 33 13 35 5 85 0 05 7 03	(Xillion lb) 19% 26 1930 31 10% 30 1984 35 xverage 4 33 2 86 13 35 15 9 5 8a 5 20 0 05 0 02 7 03 2 10	19"o 26 1930 31 to 19"0 30 19"	No. No.

It is evident that exports from Madras are steadily rising while the from Bombar also indicate an increase except for the fall in 1993 3. Exports from Sind are insignificant, but those from Bengal and Burma have declined enormously during the past 13 years, though 1934 35 recorded a rise. The following figures show the rise or fall of exports to different countries—

Exports of unmanufactured tabacco from India and Burma to different countries

(Mil)	ion ib)	
Country	192±26 u 19°9 20 Average	1930-31 to 1934-35 Average
United Kingdom	9 58	10 44
Aden and Dependencies	5 77	5 13
traits Settlements	4 12	1 45
Federated Malaya States	2 52	0 71
Hongkong	2 72	1 18
hetherlands	2 01	1 93
Belgrum	0 47	0 32
Japan	2 30	3 98
Germany	1 30	0 02

The rise in the exports to the United Kingdom and Japan is apparent Almost all this rise was shared by Madras The dight fall in the exports to Aden and Dependencies was all chared by Bonbay but made up by the considerable rise in 1935 36 and 1936 37. The fall in the exports to Straits Settlements Hongkons, Federated Malaya States Netherlands Belgium and Germany was almost wholly shared by Bengal and Burma. In 1925 26 Bengal exported over 7.0 million ib mainly to Netherlands Germany and Japan But during the very next vear her exports dwindled to 25 million ib while in 1935 36 and 1936 37 the exports from Bengal were only about 325 000 in and 245 000 ib respectively. He exports to Germany bave stopped while those to Netherlands have enormously declined Japan now bays wholly from Madras. The annual average exports from Burma during the 5 years ending 1923 ower? Finilton lib which declined to 21 million lib during the quinquennium ending 1934 35 while her exports during 1935 36 and 1936-37 were only 993 000 lb and 523 000 lb respectively losing mostly in trade with Straits Settlements. Federated Valay States and Honckone.

(c) Cigars -

⁽i) Quantity and talue—Cigars account for about 0.4 per cent in quantity and 1.5 per cent in value of total exports of unmanu factured and manufactured tobacco. The average annual exports of

eigars during the 5 years ending 1934-3) were 112403 lb valued at about 1 99 lnl bs of runees

Almost 62 per cent of the annual average exports of cigars through Rangoon (see Appendix XXII) The ports in the Madras Presidence export one third of the total while the exports through the ports of Bomhay and Bengal are small heing about 26 per cent and 17 per cent of the total respectively.

(n) Destinations.—The following statement gives the relative importance of the different countries that take Indian organs (see Appendix XXIII)

Average proportion of exports of eigars from India and Burma to different countries

Country	Quantity	Value
	• • • • • • • • • • • • • • • • • • • •	%
United Kingdom Adea and Dependencies Ceylon Straits Settlements Other Empire countries Iraq Siam Other foreign countries	30 3 3 9 11 1 39 2 2 2 2 1 4 6 6 6	35 4 4 7 10 9 31 8 2 9 3 1 3 8 7 4
Total	n) 100 0	100 0

The United Kingdom Straits Settlements and Ceylon are there fore important buyers and together account for 806 per cent in quantity and 781 per cent in value of the total average exports. The following were the exports to these three countries during the past six years —

Exports of cigars to important countries
(Thousand lb.)

	Year	United Kingdom	Straits Settlements	Cevlon
1930 31		45	116	12
1931 3°		24	59	12
193° -33		29	28	18
1933 34		34	6	12
1934-35		3*	12	8
	Average	31	44	1
1935 36		43	9	10
1936-37		29	5	10
1937 38		33	4	12

It will be noticed that while exports to the United Kingdom are slowly rising from 1933 34, those to the Straits Settlements have enormously declined Exports to Ceylon show no definite trend, but if anything, they are downwards in recent years. During the predepression period (5 years ending 1929-30), the United Kingdom imported 45,000 lb of Indian cigars on an average, so that the fall during the five years ending 1931-35 was a little over 24 per cent. The average appeal exports to the Straits Settlements during the predepression period were as high as 166,000 lb as against only 44,000 lh during the five years ending 1934-35, a fall of over 73 per cent. In 1935-36 Straits Settlements imported only about 9,000 lb of cigars Another fair importer of Indian cigars during the predepression period was Siam. The annual average exports to Siam during the five years ending 1929-30 were 32 000 lb which declined to only 12 lb in 1934-35. It is therefore evident that the exports of cigars to Straits Settlements and Siam two important buyers till the year 1930-31 have not only declined at an enormous speed, but are on the verge of disappearance

(iii) Periodicity and trend—March to May are the months of high exports and together account for about 32 per cent of the average annual exports. January and February are the months of low exports.

The exports of engars have enormously declined during the past 30 years and the present exports are about 4 or 5 per cent of the average annual exports during the pre-war period as can be seen from the following figures —

Exports of cigars from India and Burma

Period	Quantity	Value
	(thousand ib)	(thousand Ra
Pre-war average	1 535	13 01
War average Post war average	1,260	11,23
1920 26 to 1929-30 Average	450	6 09
1379 TO 10 1373-30 Westalle	303	3,17
1930-31	9-90	2.46
1931-32	118	1.33
1932-33	90	95
1933-34	64	85
1934-30	70	1,33 95 85 86
Average	112	1,29
1935-36		1,01
1026 22	73 60 62	80
1027 99	900	96
1907-95	0-	24

The decline has been cuormous and almost continuous As already noted earlier, the consumption of eigars has considerably declined all over the world and the fall in the exports of Indian eigars has been almost entirely due to this decline in demand. In this decline of trade, Burma has suffered most The annual average exports of Burma eigars during the pre-depression period were 225 000 lb which declined to 69,000 lb daring the 5 years ending 1934 35 In 1935 36 she exported oulv 52,000 lb (see Appendix XXII) Burma lost in trade mostly with Straits Settlements and Siam and at present her principal huyer is the United Kingdom which imported 39 000 lb of Burma eigars in 1935 36 Exports from Madras averaged 69,000 lh per year during the 5 years ending 1929 30 hut during the next 5 years the average exports came down to 37,000 lb In 1935 36 exports from Madras were only 19 000 lb Ex ports from Madras consust of superior eigars prepared from the wrapper leaf imported from Netherlands and also country cheroots exported mainly to Cevlon the United Kingdom and Aden and cheroots generally go to Straits Settlements and other countries

(d) Cigarettes -

- (1) Quantity and value—Cigarettes form a small proportion of the total tohacco exports from Iudia The average annual exports are 286 000 lh valued at 2,52 lashs of rupees (see Appendix XXIV) Almost 98 per cent of the annual average exports of cigarettes are despatched from the ports of the Madras Presidency

 Burma exports
 no cigarettes.
- (n) Destinations—Ceylon is the largest customer huving about half the average exports The other important huyers are the Straits Settlements and Federated Malay States

Proportion of the average annual exports of engarettes from India to different countries

Country	Quantity	Value
Deylon Strasts Settlements Federated Malaya States Other Countries	Per cent 49 1 21 2 26 9 2 8	Per cent 52 0 18 0 27 0 3 0
Total	100 0	100 0

The exports to the first three countries during the past 8 years were as follows —

Exports of eigarettes from India to important equities (Thousand lb)

	(Thousand 15)					
	¥ ear	Ceylon	Straits Setilements	Federated Maisva States		
1930 31 1931 37 1937 33 1933 34		186 121 75 141 204	8° 93 7- 44 19	64 87 102 68 78		
1934 35	Average	140	63	80		
1935 36 1936 3 1937 38		228 97 320	10 8 5	63 67 47		

It is obvious that exports to Cevion are increasing from 1933 34 but those to Straits Settlements have enormously declined during the past 6 years

(w) Periodicity and trend—There is not much marked variation in the monthly exports of a gravites the average monthly exports ranging from 20 000 to 25 1000 th. March seems to be the only month of high exports (see chapter facing page 45) when on an average about 34 000 th are exported.

The exports of eigarettes show an upward trend as can be seen from the following statement

Total exports* of cigarettes from India

Period	Quantity	\ alue
Pre war average War average Post war avera e 1922-2 D to 1979-30 average 1929-3 1	(Thousand 1b) 31 177 90 249 342 313	(Thousand Rs) 15 2 15 1 54 2 50 3 16 2 66
1931 32 1932 33 1933 34 1934 35	264 258 305	2 12 2 13 2 51
Average	296	2 53
193 36 1936 37 193° 33	379 372 419	2 85 3 40 4 98

^{*}Excluding exports of eigarcties from India to Burma, which amounted to 21 million lb valued at 65 lakks of rapees in 1937 38

It is evident that the exports of eigarettes are increasing due mainly to increase in the production of eigarettes in India. The exports in 1937 38 were the highest recorded so far

(c) Other sorts of manufactured tobacco—The other sorts of handfactured tobacco exported consist mainly of bids prepared hookah and chewing tobaccos and snuff. The verage annual quan tity exported is 450 000 lb valued at Rs 89 000. On an average about 96 per cent of the exports occun through the ports of Bengal Cevion and Maldives are the important buvers among the Empire countre, and together tale about 42 per cent of the average annual exports. Muskat Territory Truent Oman and other Native States in Arabia are the chief foreign purchasers and together account for 14 per cen of the average annual exports.

(2) EXPOITS BY LAND FRONTIER ROUTES

Large quantities almost wholly unmanufactured tobacco used for Fookah and smoking are exported through land frontier rou es adjacent to \ W F P Kashmir L P Bihar Bengal Assam and Burma (see Appendices XVII and XVIII)

The following statement shows the exports from India and Burma --

Exports through land frontier routes
(Thousand lb.)

Penod.		India	Burma.	
1925-26 to 19°9-30 Average		10 338	3 2	
1930-31		10 350	*08	
1931-32		11 010	186	
1932-33		9 "3"	9	
1933-34		8-0	191	
1934 35		9 103	1 6	
	Average	9 689	164	
1935-36		9 00	308	
1936-37		9,509	4,0	

The exports thus declined by about 6 per cent in India and 56 per cent in Burma during the five years ending 1943 as soom pared with the quinquenual averare exports ending 195 96 April to July are months of high exports from India and the period LHCAR

accounting for 44 per cent of the average annual exports Minimum exports occur in February From March they commence to rise and reach the maximum usually in the month of July

In Burma there is not much periodical variation in exports the average monthly outgo ranging from a hundred to two hundred manuals.

(3) Exports by Sea through Kathiawar and Travancord Ports.

There are no exports of tobacco or tobacco products from Travancore ports The average annual exports from Kathiawar ports are extremely small being as below —

and dree carried among a service as	1b
Manufactured tobacco	1,123
Cigars	533
Other sorts of manufactured tobacco	3,530
Total	5,186

(4) Exports through Foreign Possessions

Exports through the ports of French and Portuguese Possessions in India are small and negligible. The average annual exports from the French Possessions are about 2000 lb while those from the Pottuguese Possessions also come to about the same figure Almost the whole of this is foreign tobacco resported.

(5) Total exports from India and Burma by sea and land

The average annual total exports of different types of unmanu factured and manufactured tobreco from India and Burma, by sea and land are shown in the following statement —

Average annual exports from India and Burma by sea and land
(In thousands)

Туре	Re tub j	orte	Land Fre		hath an Traya States	gcore	Tot	al
	ъ	Ru	lb	Re	ъ	Ra	16	Ra.
							1	
Unmanufactured tobacco	25 969	83 69	9 653	9 58*	1	1	35 823	93 27
Cigars	112	1 29	1 1		1	1	113	1 30
C garettea	296	2,51		Į			296	2 51
Otter sorts of manu factured tobacco	485	89			4	1	489	90
Total	°6 86°	89 38	9 853	9 58	8	2	36 721	97 98

Values of exports by land frontier rontes are not declared and these exports are val cd at a wrange price (Rs 8 per mannd) rnling in areas from where these exports occur f value less than Rs 200.

D.—Re-exports

Re-export trade is exceedingly small and consists principally of unmanufactured tobacco, eigarettes, pipe and cut tobaccos. Unmanufactured tobacco is exported mostly to foreign countries while eigarettes, pipe and cut tobaccos are exported principally to Empire countries, as can be seen from the statement in Appendix XXV.

Re exports of unmanufactured tobacco from India and Burma.

	Year		Quantity	Value
			lb	Rs
			2 069	3,541
1930 31			2,489	2,061
1931 32		•	17 645	3,183
1932 33			18 612	31,659
1933 34			4,815	3,574
1934 35	,	Average	9,126	8 804
		Wattake	51,198	34,581
1935 36		•	4,730	3,073
1936-37			47 501	31,939
1937 39			4,301	1

Re exports of manufactured tobacco from India and Burma

		Year				Quantity	Value
						lbs	Rs
					1	14 331	55,606
1930-31					. \	19,559	61,347
1931 32	•	•	•		٠.١	8,812	30 075
1932 33	••				.	7,416	25,325
1933-34	••	••		••		40,153	127,303
1934 35	••	•	٠.	verage		18,054	59,932
			А			10,736	48,438
1935 36	••	•-	••			9,752	35,829
1936-37	••	••		•		8,711	25,055
1937-38		••		•	•	3,777	1

The reexport trade in unmanufactured and manufactured to the forms but a very small part of the total export and import trade in tobacco and tobacco products Unmanufactured tobacco is re-exported principally to Aden and Dependences among the Empire countries and small quantities, to the United States of America among the foreign countries Manufactured tobacco is exported chiefly to the United Kingdom Aden and Dependencies Cevlon Strats Settlements and Lahrein Klands among the Empire countries, and Mucket Territers and Trucial Oman and China and Janan among the foreign countries.

E -Total and net available supplies

1	1.3. (Thou an		19°6-37 (Thou.apd lb)		
	Ind a	Luma	Inlia	Burma	
Gross product on m the pre- ceding year Total Supplies	1 42 3 228	1.63.50	1 316 210	103 049	
Net product on available for consumption allowing ; per cent loss on dria ; and waste in mappings.	1143359	80 61	1 (1899)	8* 437	
Imports by sea	6 17>	13 80°	9 227	15 56*	
Imports by land	9 626	95	8,215	125	
Deduct-	11 9 183	9t 681	1 094 434	98 119	
Exports and re-exports by sea	42 63	7162	44 274	4 170	
Exports and re-exports by land	9 703	308	9 230	430	
	51 306	3 220	53 454	4 600	
Balance available	1 107 7	9I 455	1 040 980	93 519	

On the basis of estimated population in 1930-36 and 1936-37 the per capita net available supply in India and Burma during these two years was 31 and 29 lb in India and 66 lb and 67 lb in Burma respectively

INTER CHAPTER ONE

On the average growers sell 921 per cent of their tobreco crop. The annual value of the crop in India is somewhere about 18 croics of impecs, and constitutes, therefore, an important source of ready cash to the cultivators. At present tobacco occupies only 4 out of every 1,000 acres of the sown area but this acreage is steadily expinding at the rate of about 2 per cent. per annum About one million aries are grown in the Provinces, 300,000 in the India States and 100,000 acres in Burma

More than half the Indian production is concentrated in 5 clearly defined zones. The North Bengal (including Cooch Behrs State) and North Bihar area are both important for the production of hookah and other types of tobacco. The Charotan area in Gujerat along with that of Nipam in the south of Bombry Presidency have a special reputation for their hids tobaccos, whereas the remaining area, that of Guntur in Madras Presidency, is ontstanding for the production of high class eigenrette leaf

Many different types of growing plants and of manufactured products are inclinded under the term "tobacco" and it is not always cray to understand in what serves the word is used. Cultivators, for example, who grow the tobacco do not always know to what use it will be put and would not recognise it in its final form. Similarly, the man who smokes, chews or snuffs tobacco would be quite unable to recognise the product growing in the fields. It is unfortunate also that many members of the agricultural departments apparently do not know the fundamental characteristics and uses of the different types of tobacco as grown in their districts.

There are two main botanical types, viz, Nicotania Rustica and Nicotania Tabacum The former has a yellow flower and a coarse textured leaf, broad and rounded at the apex and is generally a more robust and densely growing plant than N Tabacum, which has a white or pink flower and an elongated, comparatively smooth and generally pointed leaf

The two species should be clearly distinguished. The cured leaf of N Rustica is daily of greenish brown, the meotine content may be as high as 8 per cent and its chief use is in the preparation of hookah, chewing and suiff tobucos. The cured leaf of N Tabacum langes from lenior yellow to redden from the meotine content has be as low as per cert, and it provides the entire supply of eigatette eigar cheroot and bid tobaccos as well as to a great extent being put to the same uses as N Rustica.

N Rustica represents in India one third of the total production and is confined to the region north of a line joining Cilcuitta and Karachi. In this region about one third of the N Tabacum crop is also produced the rest growing in pennisular India south of a line Ahmedabad Cakutti. N Tabacum provides nearly the whole of the export trade in bids and other smoking tobaccos, a small proportion only consisting of N Rustica Although N Rustica is grown to some extent in Europe and China it does not figure in their export trade. It is very important to observe the fact that the world's interactional trade as a whole consists of N Tabacum and not of N Rustica.

Official production estimates make no distinction between the two main species and are also misleading in regard to yield. The average annual yield per acts of law tobacco in India is officially estimated at 1179 lb in the five years ending 1931-32, as against 1565 lb per acts in the previous five years. These figures might be

taken to indicate that yields are falling off whereas the real explanation probably is that provinces and States are trying to correct, gradually, the errors in the original basis of the estimates In Bombay Presi dency, for example, the standard yield is based on a formula devised in 1884, and the estimated yield per acre at that time probably referred to the crop as cut green It would appear from enquires made in the course of the marketing survey that the official estimates for the Presidency are more than three times the actual figures In Mysore on the other nand the actual production is more than double that indicated by the official estimates In the Guntar district of Madras about two thirds of the area is now under Virginia types of tobacco which yield on an average about 750 lb of taw leaf or about 400-500 lb of processed leaf per acre but the efficial standard yield for the district is still maintained at 1 000 lb per acre

The statistical position is somewhat complicated in so far as in certain parts, ϵg —the limited Provinces the practice is to harvest stalks and stems along with the leaf. The average yield per acre—therefore—in—this province is well over 2 000 lb—of which one third consists of stalks and stems.

Taking the count v as a whole it seems that it energies vield of ray comed tobacco per acre for the six veries ending 1935-36 was somewhere about 959-lb which included 18 per cent (173-lb) of stalks and stems. The iverage yield of cured leaf alone is therefore about 786-lb per acre.

International trade in tobacco now largely consists of leaf of different types of the N Tabacum species For Indian statistics to be intelligible both in India and abroad, it is therefore essential to classify the tobacco area and production by species and types with a view to developing the internal as well as the external trade

As the method of curing determines to a large extent the quality and final use of the tobacco leaf, it is desirable to have complete information with regard to the quantities of the various types produced by the different methods of curing

The largest amount of the international trade consists of flue cured tobacco for which the demind is steadily increasing. The total production of this type in India, however, at present represents only 2 per cent of the total. More than two thirds of all the tobacco is ground cured i.e., it is cut and allowed to he in the field to be cured by the sun. Another quarter of the production is tack cured and about 5 per cent pit cured. As a first step towards improving official statistics production should be estimated in respect of the two distinct species, N. Rustica and V. Tabacum and the latter should be sub-divided into (a) Virginia and (b) Desi (o) Natu), each of which should in turn be sub-divided into (1) flue cured and (2) sun cured. This would go a long way towards cleaning up the present obscurity.

India produces about one fourth of the tobacco in the world and vet continues to import considerable quantities—particularly of unmanufactured from the United States-and the quantity has been in creasing There is, however, a certain amount of satis faction to be found in the fact that imports of cigarettes have shown a more than corresponding decrease ports of cigars have also fallen off considerably but un fortunitely the exports of cigars from India and particularly from Burma have shown an enormous drop and now represent only about 04 per cent of the total quantity of manufactured and inmanufactured tobacco exported It is gratifying to observe that exports unmanufactured tobacco in recent years have risen, particularly to the United Kingdom and Japan increase in the exports of Virginia flue cured tobacco to the United Kingdom during the past four years is particularly striking. In 1931-35 these exports amount ed to 93 million pounds and the figure was more than doubled in 1937-38. This is an indication of the growing popularity of the good quality flue cured Vinginia tobacco produced in India.

CHAPTER II -UTILISATION AND DEMAND

A —Quantitative demand

(1) Unmanufactured Tobacco

Tobacco is mostly consumed in the country in the form of manufactured tobacco products namely eigarettes eigars cherost bids hookah and chewing tobacco and snuff. The quantity consumed in unmanufactured form is extremely small being confined entirely to hookah and chewing tobaccos. Unmanufactured tobacco is therefore almost entirely demanded by manufacturers whose sources of supply are the local production and the imports. Taking into cuisideration therefore the production within the country imports and exports the net available supplies of unmanufactured tobacco in lindia are in het d in the following statement:

Innial ret i adalle supplies of unmanufactured tobacco in India
(Million lb.)

	1932 33	1933 34	1934 35	1935 3 6	1936 37	Average
Gross production in preceding year	1 272	1 306	1 154	1 429	1 346	1 301
Peduct 20° on account of driage damage and wastage in manufac ture	254	°C1	231	286	269	260
	1 018	1 0 fa	923	1 143	1 077	1,041
Add imports by sea*	13	13	8	6	9	10
Add imports by land	11	8	6	10	8	9
Deduct exports by sea*	36	42	39	42	44	41
Deduct exports by land	9	9	9	10	9	9
Net supplies available for manufacture and consumption	997	1 015	889	1 107	1,041	1 010
	1					l

The annual average demand for numanufactured tobacco in India may therefore be taken at 1010 million lb after allowing 20

^{*}Include coastal imports and exports

per cent on account of loss of moisture, damage and waste in manufacture

Similar figures for Burma given below show that the approximate average annual demand for unmanufactured tobacco from the Burmese manufacturers comes to about 86 million ib

Annual net available supplies of unmanufactured tobacco in Burma

(Million lb.)

	1932 33	1933 34	1934-35	1935-36	1936-37	Average
Gross production in precoding year	87	87	101	101	103	96
Deduct 20% on account of driage damage and wastage in manufac ture	17	17	20	20	21	19
	-0	70	81	81	82	77
Add imports by sea*	15	13	13	14	16	14
Add imports by land;						
Deduct exports by sea*	5	8	4	3	4	5
Deduct exports by land					}	
Yet available supplies for manufacture and con sumption	80	75	90	92	94	86

(2) TOBACCO PRODUCTS

(a) All tobacco products—Estimates of consumption of the different tobacco products in the various Indian provinces and

^{*}Include coastal imports and exports

tAbout 02 multon lb on an average

States and Burma as based on enquiries made in 1934 5° are given in Appendix XXVIII and illustrated in the diagram facing this page. The figures given in the appendix show that the total consimptive demand for all manufactured tobacco products comes to 10163 million lb or 2915 lb per capita in India and 869 million lb or 638 lb per capita in burma

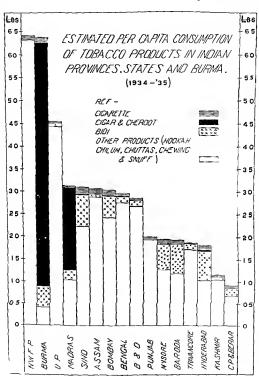
It may be stated that as given in Appendix XXVI the net available supply in India of all tobaceos (manufactured and unmanu tactured) in 1334 35 was 8891 multion lb as against 10163 million lb as arrived at in App nd x XXVIII The difference may be accounted tor by the portion appropriated from the previous years curry overs necessitated h, the low production in 1933 34. The difference in the figures for Burma as given in Appendices XXVII and XXVIII may also he accounted by the year to year variation m the size of the crop. For similar reasons differences are observed between the figures of consumption for India and Burma as given in Appendix XXV III and those dealt with in the previous section on the quantitative demand for unmanufactured tobacco. Thus while the consumption of manufactured tobacco in India in 1934 35 was 1 016 3 million lb the quant to of unman sfactured tobacco available tor manufacture in the same year was only 889 million lh, the difference being accounted for by the carry overs from the previous years due to the smaller size of the crop in the country in 1933 34

It may be interesting to compare the per capita consumption figures for India (291 lb) and Burma (638 lh) with those of this some of the important tohaceo consuming countries of the world like the Netherlands (78 lb) USA (61b) UK (332 lb) Germany (324 lb) and France (29 lh) The figures available and given for these foreign countries are for 1932 hut they show that the per capita consumption in India is not large and that the figure for Burma compares favourably with that of some of the biggest tobacco producing countries of the world Tobacco smoking in Burma is more general than in several other countries of the world and it is estimated that at least four fifths of the Burnese population men women and even children use tobacco in one form or another.

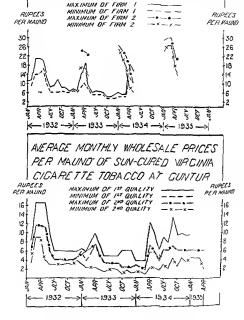
(b) Cognettes—I garette smoking is becoming more and more the fashion of the day and as such the trend of consumption of cigarettes is on the lise. A major portion of the deemand in India is met by eigarettes manufactured within the country and the imports are last dwinding.

In Burma almost the whole of the demand for eigarettes is satisfied by imports mostly from India

The following statement shows the quantity of eigarettes consumed in the different Indian provinces and States and Burma in 1934-35



AVERAGE MONTHLY WHOLESALE PRICES PER MAUND OF FLUE-CURED VIRGINIA CIGARETTE TOBACCO AT GUNTUR



Estimated consumption of eigerettes in the proxinces and States of India and in Burna in 1931 30

Province or Stat	Total consumption	Per capita		
	1b	1b	Nos	
	1 129 796	0 125	41	
Mesam	2 741 506	0 0.4	19	
Sengal	1 640 000	0 042	15	
Bihar and Orissa	2 214 000	0 118	41	
Bombay	701 674	0.014	15	
Central Provinces	1 372 434	0 028	10	
Madras	205 000	0.083	29	
NWFP	1 429 317	0.058	20	
Punjab	639 302	0 155	54	
Sind	1 466 816	0 029	10	
United Provinces	281 834	0 111	39	
Baroda	1 312 000	0.05	30	
Nizam s Dominions	164 900	0 044	15	
Kashmu	718 484	0 107	37	
Mysor-	50 020	0 009	1 .3	
Travancore	3 957 150	0 075	26	
Other areas	1		1 00	
Total India	20 016 35S	0 0.7	20	
Burma	1 731 840	0 127	44	

NOTE.—The outsite slown is in terms of the t bacco contents

The per capita consumption in India thus works out at 20 eigarettes It is highest in Sind at 54 though for the cheaper brands mostly Assam comes next with as large a demand as 44 The demand for high grade eigarettes is highest in the sadar Sub division of Lakhumpur in issum presumably because of the comparatively large European population Bombay consumes large quantities of eigarettes and her per capite consumption work out at 41 is an extensive demand in the province for packets of ten cigarettes sold at one and a per packet or two currette per pite in retail. The per capita demand for eignre tes in the North West Frontier Protunce is estimated at 20 minutes of the cherp brands. In the Punjub, a large section of its people are probabiled the use of tobacco in any form by the tenets of Si hisr Sil is constitute about 13 per cent of the population of the province and this appears to be the main reason why the consumption of tobacco piolacts there is so low as compared with the neighbouring provinces of Sind the North West Front or Province or the United Provinces, as would be seen later The eigarette however boing in fashion appears comparatively un affected and to have a fair number of consumers Of the total cigarette smoking population about two thirds smoke low quality, a fourth medium quality and remainder high quality cigarettes consumption in Bihar and Orissa and Central Provinces is about the same, being 15 eigarettes per capita It is estimated that only about 2 per cent of the smoking population in the Central Provinces and Berar smoke cicarettes. In Medicas and the United Provinces the demand for circarettes, is distributed all over the province and the rate per head is about 10 eigenrettes.

Among the States Baroda consumes large quantities of cuarettes and the demand is met mainly by the cizarettes imported from outside the State. There is a cirarette factory in Baroda but a very large portion of the cizarettes manufactured in it are consumed out ide the State. In Mys.re most of the cigarettes smoked are of low grades. The entire demand in the State with the exception of a small quantity of imported cigarettes is, for the Indian product. The consumption of cigarettes in the Viram's Dominions is fairly large beam about 30 cirarettes per capita.

Burna is a heavy consumer of tobacco product, and her consumption of cicarettes falls in line with her reputation as such.

(c) Cigars and cheroots—The following statement gives the quantitative demand for ciears and cheroots in the important consum mg provinces and vates of India and in Burma in 1934-35—

Estimated consumption of eigens and cheroots in India and Burma in 1934-35

Province or State	Quantity consumed.	Consur per ca	
	16	ľЪ	10:
Benral	993.780	0.020	4
Bihar and Orissa	8 a2s	•	
Bombay	325 (00)	0 014	3
Central Provinces and Berar	60.270	0 004	1
Madras	89 631 9~6	1 861	3-2
\ W F P	1 18 040	0.007	2
Punjab	20,418	0.001	*
Smd	60,024	0 014	3
United Provinces	51,200	0 001	
Vizam s Dominions	410 000	0 027	5
Mysore	56 334	0.008	2
Travancore	, 29 520	0 005	1
Other areas	816 768	0 012	3
Total India	92 459 595	0.265	53
Burma	"3 062 000	5 370 1	547

Nor2.—The weight of the tobacco is in terms of net weight *Neghrible

ACTUAL OF

Modras ranks first and is outstanding among the provinces of line as recards the con imption of enears and cheroots the annual per capita consumption being estimated at 372. In the Greats, especially in the Vi agaputam and Godovari districts of the Presidence the use of cheroots. Is almost numerical among the smoking population. The annual consumption in Bringal works out at 4 cars and cheroots per capita. Vi am's Dominions is the only State where there is any appreciable consumption of cierars and

cheroots In other provinces and States the demand for eigars and cheroots is extremely small

- In Burma the consumption of cheroots, is almost universal among the adult population and even children. There are two hinds of the atom in use. One is the ordinary hind of cheroot or Hise byin leik wrapped in tobacco leaf, and the other is the torch cheroot or Hisebier-leik made with a muture of chopped tobacco stalk and shredded leaf as filler, and the sheath of the manze cob or the prepared leaf of "Thanat bin" (Gorda Spp) or the sheath which envelops the leaf hase of the "Kun bin" (areca but tree), as the wrapper
- (d) Pipe and cut tobacco—The demand for this type of manu the European and Anglo Indian population. The quantity consumed in India in 1934 35 is estimated at the extremely small quantity of 517 830 bi. In Bombay the annual consumption of pipe and cut tobaccos is about 246,000 lb which works out at 0013 lb per capita. The total demand in Bengal is 139,310 lb and the percapita comes to about 0003 lb. In the other provinces and Indian States the demand is extremely small. In Burnar the consumption of pipe and cut tobacco is negligible and is estimated at 11,480 lb in 1934 39.
- (e) Bidis —The bidi is the poor man's eigarette. The statement given below shows the estimated consumption of bidis in the provinces and States of India and Burma in 1934 35.

Estimated consumption of bidis in India and Burma

Province or State		Total Quantity	Per capita		
	7	lb	1b	Nos	
Assam	- 1	560,880	0 062	62	
Bengal	- 1	6,796,980	0 133	133	
Bihar and Orissa	- 1	4 895,400	0 126	126	
Bombay	- [8 919,140	0 477	477	
Central Provinces and Berar	- 1	2,870,000	0 179	179	
Madras	ı	10,295,100	0 218	218	
YWFP	- 1	3,075	0 001	1	
Panjab	- 1	127,797	0 005	5	
Sind	- 1	2,801,400	0 687	687	
United Provinces	- 1	3,424 512	0 070	20	
Baroda	ì	1,679,483	0 660	660	
Nizam's Dominions	- 1	10,001,000	0 664	864	
Kashmir	- 1	254,692	0 068	68	
Mysore	- 1	3,852,811	0 572	572	
Travancore	Į	750,300	0 137	137	
Other areas	ĺ	11,449,354	0 217	217	
Total India		68,687,924	0 197	197	
Burma	- 1	6,479,968	0 476	476	

NOTE —Only the tobacco contained in the bids has been taken into account in the statement. The weight of the wrapper lenf is excluded LilCAR

The per capita consumption of bidis in India works out at 197 bulis Sind ranks first among the provinces as regards the annual consumption of bides Bombay comes next in rank and the importance of the province as a consumer of bidis is in keeping with the fact that it is the most important area for the cultivation of bide tobacco which is despatched to all parts of the country Madras has a per capita consumption of 216 bidis Central Provinces and Berar have the most important bids manufacturing centres in the country but the per capita consumption comes to only 179 bidis Bengal and Bihar and Orissa come next with 133 and 126 bidis per capita In the United Provinces there is only a small demand for bidis This is not surprising in view of the fact that the people of the pro vince are mainly hookah smokers. In the Punjab and Assam also the demand for bidis is small the consumption of bidis in the North West Frontier Province is extremely small and the consum; tion is mainly confined to Indian troops who are recruited from the bid: smoking areas and the servant class in the towns It is doubtful whether the bids would ever appeal to the sturdy Pathan

The demand for bids in the Assam's Dominions appears to be the largest among the Indian States. In Baroda the annual con sumption stands at the high figure of 660 bids per capita. In Mysore also there is a large demand for bids.

On the whole it appears that the bids is a popular smoke in western and southern parts of the country. Of the two cheap smokes the bid and the hookah the latter is more popular in the north where the bids occupies but a place of minor importance

In Burma the consumption is large and works out at 476 bids per capita

(f) Other tobacco products —The estimated demand for manu factured kookak and chewing tobaccos and suuff is shown below —

Province or State	Quantity	Per capita consumption
	1b	16
Assam	26 256 892	2 9
Bengal	142 1905 374	وو ا
Bibar and Orissa	105 828 796	2 7
Bombay	46 257 020	2 5
Central Provinces and Berar	11 344 290	0.7
Madras	50 242 876	10

) ruvince or State	Total Quant ty	Per capita consumption
	1 1ь	lb.
N B P	15 obs 312	6 3
l i njab	48 412 718	20
Pn P	9 268 3 /8	2 3
Un ted Prov 1	219 021 262	4 1
Baroda	3 068 358	12
`izam a Dominions	15 924 0 -9	11
Kashmir	3 993 9"4	11
Myeore	8 700 530	1 3
Travancore	9 5 1 8	1 8
Other areas ,	118 *14 500	2 3
Total Indua	835 069 130	2 4
Burma	5 5-9 289	0 4

NOTE.-Only the tobacco content has been taken into account

The per capita consumption in the North West Fronter Protince is very high and largely consists of hookah tobacco. Hookah smoking is almost universal amongst the smoking population of the province and more especially in the rural areas. A hookah is considered as an essential requisite of the village Hupta (meeting place) and small fancy bags containing supplies of tobacco for the purpose are carried by most of the smart looking villagers. The use of smuff also is popular among the people.

In the United Provinces an important centre for hookah tobacco maintacture the consumption is heavy and works out at 44 lb per capita. The major portion of the demand is for hookah tobacco although there is considerable demand for chewing tobacco as well

In Assam the demand is more for hookah tobacco. Hookah smoking is prevalent in all the districts in the plains and to a smaller extent in the hilly regions. The demand for chewing tobacco is greater in the Upper Assam valley than in the Lower Assam and Surma valleys and comes mainly from the rural population and cooles in the tea gardens. The consumption of chewing tobacco

made from Jati tohacco is confined chiefly to the districts in the plains

In Bengal these tobacco products find more favour with the rural population Bengal consumes mainly hookan tobacco and her demand for chewing tobacco and surface and the surface of the su

Walris, consumes only a negligible quantity of hookah tobacco. The d mand is mainly for pit cured Meenampalayam chewing tobacco and te chief consuming districts are Madura. Madras Tanjore Vialabar Trichinopoly Vellore North Arcot and South Arcot. The consumption of ordinary chewing tobacco is concentrated at Madura Trichinopoly. Innevelly Nellore and Ganjam districts and that for excited ehewing tobacco at Madras North Arcot and Chinglept districts. South Kanara satisfies her demand for chewing tobacco from local production. Madras souff is enough to meet the entire demand of the Southern districts and the requirements of the West Crast are met by Vangylore souff. South has made practically no entry into the Grears, where the jeople prefer cigars and cheroots.

In Mysore and Trainners States, the consumption under this head comprises mainly of clewing tobaceo. In Mysore the habt of chewing tobaceo in the torm of bits or powder is fairly common in Trainners the demand for Timuselly chewing tobaceo is restricted to the labouring classes in Toyala Agestesswarm Shenkotta and Devicolam areas Of the two kinds of Combators chewing tobaceo Thallaykettu and haddul ettu, the latter is more expensive than the other and hence its consumption is restricted. In the whole of Trainners State there is a special liking for Jaffas tobaceo for chewing purposes and large quantities are imported annually from Ceylon as already noted earlier in Chapter I

Burma consumes considerable quantities of chewing tobacco. The local demand for hookah tobacco and snuff is extremely negli-

B-Qualitative demand

(1) UNMANUFACTURED TOBACCO

The quality characteristics of the principal commercial types of tobacco have already been described in the previous chapter. They may however be summarised at this place. In the case of flue cure Virginia cagarette tobacco a leaf with bright lemon colour and far silky texture with the least amount of hlemisb and damage is giver preference to others. The most desirable qualities in sin cure Virginia tobacco are bright colour good texture and absence of blemisbes and those of sun cured Natu (country) tobacco are bright colour good texture and absence of the presence of the colour good texture and abody and lack of hlemisbes on the leaf. The flavour in all these types should be pleasing and neutral or fire from pungency and objectionable—g.g. carthy—or unusual aroms.

The buvers of eigrarette tobacco are the manufacturers and the exporters from the Guntur District. The principal eigrarette factories are located in Bombay Sukkur Jullundur. Allahabrd. Calcutta Sabarappur Monghyr and Bangilore The eigrarette factories at the last three places belong to the Tobacco Manufacturers (India) Ltd and the Cigarette Manufacturers (India) Ltd who specialise in the manufacturer of medium and high grade eigrarette. There are also eigrarette factories at Hiderabrd (Decean) and Berwada Excepting the factories belonging to the Tobacco Manufacturers (India) Ltd and the Cigarette Manufacturers (India) Ltd and the Cigarette Vannfacturers (India) Ltd and the Cigarette Vannfacturers (India) Ltd and the Cigarette Vannfacturers (India) Ltd and the Cigarette tobacco is almost entirely confined to the factories located in Calcutt and those belonging to the Tobacco Wannfacturers (India) Ltd and the Cigarette Vannfacturers (India) Ltd

In the manufacture of cepar, there is a greater deman I for leaf with uniform brown colour and without any greenish tinge good and continuous hurn strong and agreerible flavour good size and pleasunt aroma. After hurnine the leaf should leave behind white ash. A combination type of leaf which will serve as a wrapper binder and filler is given preference. The leaf used as filler and binder has colour varying from light vellow to light hrown. It is mild in flavour thin in texture and light in weight. Leaf with hight glocal colour tearing towards light hrown lik texture gloss and lustions surfaces leaving white ash after burning is the one used as wrapper in superior cigars. The demand for imported and local cigar tolaceo is from manufacturers of cigars from Di idigal Trachinopoly and Vladras and in the case of Burnia from Pangoon Mandiala and other small manufacturing centres.

In the manufacture of cheroots the purchase of the leaf is made generally on considerations of colour size texture strength and aroma. A leaf with uniform hight brown colour is preferred. In Guntur and Godavari di tricts of Madris the local Innka toba on is used both as wrapper and filler the larger sized leaves with data colour being preferred for wrapper and those with high colour for filler. The Lankas tobacco is also in demand in Madris Trichinopoly and Timewelly districts for the manufacture of cheroots. On the west coast in Cannanore large leaves of Bhavani tobacco with thin texture are in demind for wrapper and Methopalavam tobacco which is stronger than the former in ed as filler.

The chief types of bidi tobaccos in demand all over the country are Gujerati and Vipam bidi tobaccos. On account of its larger production Gujerati tobacco is considered stronger than tujerati. The Vipam tobacco is considered stronger than tujerati and these two varieties are mixed together in different proportions to manufacture b dis of varying strength. Local produce is also in demand for bidis to a certain extent in some areas, e.g. in Hyderabad and Visore. Occasionally the locally produced tobaccos as for instance Calcultia variety grown in the United Provinces and the Punjab or bidi tobacco grown in Mysore and Hyderabad are mixed.

with Gujerati and Nipam tobacco to manufacture bids of lower quality. The Nipami and Gujerati tobaccos comprise of strong and thick leaves broken into small pieces. Gujerati tobacco has a light orange yellow colour rather more greenish while the colour of Nipam is brownish red with a slight greenish tinge. The powder of good quality bidi tobacco contains the least quantity of stalks and stems. Reddish coloured bidi tobacco is preferred in Sind Rupputana the Central Provinces Calcutta and Rangoon. Bid powder with reddish yellow colour of greenish tinge is preferred in the Bombay Presidency and hathnawn. Since Aipam is considered to be stronger in flavour than Gujerati thas a very large demand from manufacturers in Northern India particularly from Delhi the United Provinces and Bengal.

The chief varieties of kookah tobacco in demand are Calcuttu Asmipilla Dess Kandhari Gobhi and Ustithari A broad coarse and thick leaf with thin emis and midrh strong flavour slow con timous burn and brown earth; colour is preferred for hookah manu facture. Different varieties and qualities of leat ire mixed togetle in different proportions to give stringth and body to the minufactured product and each manufacture; peccalises in his own particular blend. The principal hookah manufacturing centres where hookah tobacco is largely in demind are Peshawir Lahore Delhi Lindinov Cawinore Allahabad Benares Gava Calcutta Dacca and Hyder abad (Decean)

In the case of chesting tobacco the principal quality considerations are the body and thickness of the let I colour strength and freedom from dunage and divease. A thick leaf with uniform body good absorbing capitative reddish from endour and medium strength and a biting taste is considered best for chewing purposes. In manufacturing the different qualities are blended in certain proportions to get the desired strength body and taste. High quality chewing tobaccos are in demand from manufacturers in big cities like Delhi Bentres Luel now Madras etc.

The general quality factor of good shuff tobacco are that it is should be a strong tobacco with bright vellow colour thick fecture besides being brittle so that it can be reduced easily to fine powder Superior quality shuff tobacco are in demand from the monu facturers in Madras and Mangalore in the Madras Presidency Peshawir in the North West Frontier Province and Harro in the Punish.

(2) Tobacco Products

There are three classes of eigarettes sold in India and Birmia middle medium and low grades. Gigarettes may be further classified according to strength of flavour into mid medium and full (strong). Bigh class eigarettes contain tobacco of bright golden yellow colour the cuts consisting of pure leaf and no stems. The medium grade eigarettes contain tobacco of bright yellow colour with a small per centage of tobreco of lower quality and the cuts contain small put intities of stems. Its flavour is considered stronger than that

of the high grades of medium flavour. In the low grade eigarettes, the tobacco is dailer in colour and lower in quility, the flavour being stronger than the medium grade eigarettes. There are numerous blands of eigarettes in the market and each braid has its own devotees. Usually the poorer classes of mokers go in for cheap brands and the middle and the weilth classes in towns and etites purchae esuperior eigarettes. Rughth 10 per cent of the eigarettes sold in India consist or the cheap brands more than 20 per cent medium and the rest high grades. In the rural areas the eigarettes consumed are entirely low grade the demand for medium and high grades being concentrated in towns and cities. The imported eigarettes comprise of high and medium grades and are almost entirely demanded in the urbin areas.

Cagars of different quality are consumed mo it by the wealthy cases and generally looked upon as a luxury. The quility of a eight depends upon the quality of the tobucco used as filler bunder and wrapper. The mild type of eight only is generally preferred and the stronger ones are relegated to the cheroot class. The cheroot is much cheaper than the civar and the demand for it is considerably larger. The consumption of cheroot is very largely confined to the Madras. Presidency the Nizam's Dominions and Burma. In the Madres Presidency the districts on the East Coast generally demand stronger type of cheroots than those on the West Coast.

In the case of bidts cheapness and popularity of the brand (due generally to advertisement) are the important factors account ing for large sales by certain factories A bids of medium size and strength and containing as large an amount of tobacco a possibl is generally preferred. The colour of the wrapper leaf gives attractneness and one with bright rellowish colour is very much liked by consumer. The qualitative demand for bidis is found to vary from one truet to another. Thus in Bombay Sholapur is credited with the demand for stronger bidis made of strong and almost a black coloured tobacco. The demand for such bidis comes particularly from the textile mill workers of the city. In other areas of the Bombas Presidence however bidis made of tobacco with mild flavour and good finish are in demand. In Rapputana the United Provinces and Bengal bidis of stronger flavour are generally preferred In the Central Provinces and Sind there is greater demand for medium flavoured bidis Medium and large sized bidis with strong flavour are generally preferred by the work ing classes while small sized bids with mild flavour are preferred by educated lower and upper middle class people

The quality of the manofactured hookal tobacco varies from place to place in accordance with the methods of preparation and the kind and proportion of the impredents used. There are two chief qualities of hookak tobacco namely Karwa (strong and puncent) which is considered to be of superior quality and the other Ghotia or Uitha or Sada (mild). The first is a strong smoke whereas the other a mild one as their name, imply Some people however prefer tobacco of medium strength and for them Karua type and

Mitha tobaccos are hiended in different proportions. While the Karuca type of tobacco is in general demand in the rural areas (of the United Provinces the Punjab the North West Frontier Province Western Rapputana States and Smd) the nuddle classes in these provinces and States use either the Mitha or the mixtures. The southern and eastern parts of the country seem to prefer the mild type generally.

In the ease of chewing tohacco also the quality demanded varies from one place to another Mannfactured chewing tobacco is sidd in three forms powder pulls and paste (Zarda or Surf. Golt and Quiam). The powder may be fine or coarse (Danedar or Path) and etther black or brown (Kata or Path). The qualitative differences are based on the quantity and number of spices and seems used Some wealthy people demand seemted and flavoured preparations even with some tome ingredients. There is a belief in the United Provinces and Delbi that some of the chewing tobacco curreportibea Lucknow and Benares are famous for the manufacture of chewing tobacco.

The quality of sauff depends on the method of preparation and blending In Madras three lamls of suuff are demanded by the people namely dark coloured brown and scented Some people prefer to take a maxime of brown and scented souff in the Peshawir maniet there are two qualities of suuff the first made from top leaves and the second from moddle and bottom leaves at to tobacco plant. In time case also a nuxture of the two is occasionally demanded

C -Seasonal variations in demand

(I) UNMANUFACTURED TOBACCO

(a) Intel—Broadly speaking the demand for the summary factured tobec; is maxim in soon after the harvest. The merchants and manufacturer who have fairly good storing accummodation prefer to purchase their stocks at this time and generally go to the spot to do so in order to be sure of quality. The growers also like to sell tobacco in the post harvest period itself isnee the prices of tobacco do not improve on storing particularly in the case of eigersteff and cigar leaf and better quality cheroot and chewing tobaccos and as the quality of these types deteriorates in the absence of adequate storing facilities. The fear of rains constitutes an additional reason for the purchase or disposal of the produce as early as possible.

Tobacco growers are more fortunate than producers of most agricultural products in that the demand from processors and manu facturers is at its peak when supplies are greatest. The demand and supply curves follow the same general course and the following figures of monthly total volume of traffic in unmanufactured tobacco by rul aid truer indicate roughly the seasonal variations

Average monthly volume of traffic in unmanufactured tobacco by rail and river in India

Month		Quantity
		(Thousand maunds)
Aprıl		382
May		451
June		387
July		290
August		232
September		203
October		231
November		204
December		185
January		171
February		210
March		264
	Total	3 230

It is seen that about 56 per cent of the unmanufactured tobacca entering the inter provincial trade is moved during the five months March to July The movement of traffic falls in August and September but in October there is a small recovery due mainly to the cessation of autumn and commencement of cold weather. There is again a fall from \overheer to January with January as the It may be stated, however that this mouthly movement of traffic does not indicate the consumers demand for manufactured tobacco but rather the demand of manufacturers who prefer to buy before the quality deteriorates and when the stocks are high in the market While the consumers demand for manufactured tobacco products is slightly higher during the winter months the manufacturers demand for unmanufactured tobacco is at its minimum during this period. The demand from mannfacturers commences to rise in February when supplies of fre h erop begin to arrive in the market and is at its maximum somewhere about the month of Max

(b) Cigarette tobacca—There are two sources of unmanu factured eigerette tobacco 12 imports and local production. As already discussed in the supply ebapter January and February are the months of high imports of unmanufactured tobacco from abroad and together account for about 29 per cent of the average annual imports. March. April June and December are months of low imports while imports during fully to September are fairly high and account for 26 per cent of the total. The local supply of

eigarette leaf comes almost entirely from the Guntur area where almost all the supply available with growers is sold off from January to March in the case of Virginia variety and from April to June in the case of Virginia variety on account of the high demand prevailing during these periods from the manufacturers and exporters. As already noted in the previous chapter large quantities of sum cured Virginia variety of the exported. To Japan are made on orders which are received by exporters once time in September to November in years of heavy orders. The small quantities of Virginia leaf produced in the United Provinces and My ore are sold off immediately after harvest, i.e., during September to November to January respectively. The demand for health grown cigarette tobacco on the part of manufacturers, and exporters is thus at its maximum during the pre harvest, earned and minimum during the pre harvest period.

Comparing these seasonal variations in demand with those of prices described in the next elaptor it will be noticed that the prices of important types eg Lanko, in Godavari distinct of Madras and Jats of Rangpur in Bengal are formed to the month and commence to rise after about fouring the post harvest months and commence to rise after about fouring the post harvest months and commence to rise after about fouring the post harvest months and commence to rise after about fouring the control of the part of merchants and manufacturers and is entirely on account of the fact that tofaceo improves in smooting quality after it is stored for some months under proper conditions which will be discussed later, in the chapter on storage and stocks

(d) Bull tobacco—The demand for bull tobacco also is the highest during the months immediately after harvest. In the Charolar area of the Bondbay Presidence the demand on the part of manufacturers, metchants and exporters commences to rise by about the end of December when the earliest crop is offered tor sale. By January the best qualities of the crop appear on the market and

on account of the keen competition among the buyers to secure these qualities the prices also rule high. The maximum purchases by the huvers are made during March and April. By May the demand commences to decline and hy the end of June the farmers in this area sell almost the whole of their erop. June to October is a period of low demand. There is a small improvement in demand from the end of October to the end of November followed hy a decline in December.

In the Aspan area also the demand is at its maximum during the post barvest months. It commences to rise in January when the fresh crop begins to arrive in the market and is at its greatest during February and Varch. Over four fifths of the tobacco is sold off during the period February to May. There is a slight improvement in the demand by about the end of October which continues till December.

In both the bidi tobacco producing areas the prices during October to December are at a higher level than those prevailing during post harvest months but these high prices are entirely due to the improvement in the smoking quality of tobacco on account of storage

(e) Other tobaccos — The demand for unmanufactured tobacco for hookah chewing and snuff purposes is also high soon after harve t when the manufacturers and merchants have opportunities to satisfy themselves as to the quality of the stuff they purchase In Bengal almost all the hookah and chewing tobaccos are sold from April to October the months of maximum sales being May to July In Biliar the crop begins to arrive in the market from shout the end of March when the demand from manufacturers and merchants commences to rise The maximum demand 1 from about the middle of May to the middle of June Over 80 per cent of the hookah and chewing tohaccos are sold off by the growers before the middle of June From July to September the demand continues at a low level It rises again in October to a small extent. In the Uadras Presidency the manufacturers and merchants of chewing tobacco make the maximum purchases from March to July when about three fourths of the growers crop is sold off. In the Punjab the hookah manufacturers and merchants purchase about 80 to 90 per cent of their requirements of tobacco grown in the Punjab from June to October Similar is the case in the United Provinces and over three fourths of the eron is sold off to buvers from Vay to August but the months of maximum demand in both the provinces appear to be June and July

(2) Tobacco Products

(a) Cigarettes—The monthly demand for cigarettes in India is more or less uniform throughout the year except during the winter months when it increases to a slight extent. The seasonality of demand for cigarettes may be indicated roughly by the figures given below of the approximate monthly outward traffic at three important distributing centres in the United Provinces. North Bibar and Mysore

Approximate monthly outward traffic in cigarcites at three important centres of distribution in the U.P., North Bihar and Mysore

Months	U P	North Bihar	Mysore
	(Thousand cigareztes)	(Maunds)	(Maunds)
January	98,000	700	11,000
February	112 000	500	9,000
March	135,000	500	10,000
April	120 000	600	13,000
May	145,000	700	12,000
June	115,000	500	
July	194,000		11,000
August	122,000	600	9,000
September	1	400	7,000
October	124,000	500	9,000
November	129,000	800	10,000
December	161 000	700	9,000
	144,000	600	11,000

The statement shows the eigenvette distributors' demand, but it also seems to indicate that the general demand is slightly higher during the winter months. During the remaining period of the year, it appears that apart from slight month to month variation, the demand is fairly uniform

In Burna also the demand tends to be slightly higher during the winter montis than in the remaining months of the year. The following figures of monthly coastal inward traffic regarettes in 1935 36 indicate roughly the seasonal variations as there is no local production of coastetic. In Burna.

reduction of eigenettes in Burma	as there is no loca
April	Quantity in thousand lb
May	162
June	147
July	178
August	139
September	144
October	120
November	173
December	139
	187

	Quantity in thousand lb.
January	185
February	195
March .	180

About 54 per cent of the inward coastal traffic in cigarettes thus concentrated during the winter months, October to March During the remaining periods fairly wide fluctuations are noticeable, the months of high demand generally alternating with those of low demand

(b) Cigars and Cherools—It is reported that the demand for eigars and cheroots in Madras and Bengal is greater during rains and winter months. In Sind the demand is high during winter. In Bihar and Orissa and the Punjab the demand appears to be more or less uniform throughout the vear. In Assam the demand is reported to decline during the rainy season. In Coorg there are two definite periods namely, April to June and December to January when the demand expands considerably the former because of the eason for marriages and the latter on account of Christmas festivities.

The following approximate average monthly inward traffic of eigers and cheroots at a few centres indicates roughly the seasonal variations

Approximate monthly inward traffic in cigars and cheroots
(Lb.)

Vonths	Bangalore	Travancore	Cochin.	
January	6,700	2,500	300	
February	7,900	2,600	300	
March	5,300	2,200	500	
Aprıl	5,500	2,600	400	
May	5,300	2,100	200	
June	5,100	2 400	300	
July	6,500	3 300	200	
August	6,700	1,600	1,200	
September	7,000	2 700	200	
October	4,800	3,100	500	
November	6,400	2,700	300	
December	4,400	2,800	500	

The figures relating to Bangalore represent about 60 per cent. (t the demand in the State. The Travancore and Cochin figures represent the entire demand within these States. But the figures for all the three centres do not reveal any definite periodicity showing as they do wide fluctuations from month to month. However, they seem to indicate a general tendency for the demand to increase though only to a very slight extent during the winter months. The demand at other times is more or less steady.

The consumption of cheroots in Burma is reported to he steady throughout the year except for a slight tendency to increase during winter and months of heavy rainfall

(c) Bids.—The following figures of approximate average monthly outward traffic in bids from important centres of mann facture in the Central Provinces which supply bids to all over India and even Burna Nauk Road (Bousha) and Jikans (U P) show in a general manner the periodicity of demand on the part of distributes.

(In manuals)

Months	C P	\asik Road	Jhansı
January	2 500	500	60
February	2 600	600	110
March	2 200	400	120
Aprıl	2 800	500	70
May	2 400	500	50
Jane	2 400	500	130
July	2 100	900	110
August	2 000	400	70
eptembe r	3 100	600	80
Octobe r	3 100	300	130
ovember	2,300	1 300	100
December	2 900	*00	130

Although the figures do not exhibit clearly marked seasonal ariations they show roughly that the demand is slightly greater in winter months and fairly steady during the renaining months of the year. There are however some territorial variations in the seasonality of demand. In Assom the demand declines comparatively

during the rains. In Coory the demand for bidis is high from April to June and in December and January

Among he Indian States in the Vizam's Dominions the demand is greatest in November to February. In Visore the demand appears to be slightly higher during the monsoon months namely May to September. In Trainnore and Cochin no marked variation is reported except at the time of festivals.

(d) Other tobacco products—The main areas using manutac turned hookah tobacco are the N W F P Punjab, U P and Bengal Large quantities are also used in Bibar and Central India. From enquiries made it appears that the demand is generally high during the winter months and seasons of religious and social festivals. During the other times of the year the demand is fairly steady from month to month. In the rural areas the demand slightly rises during the post barvest months when the cultivator has eash to spend on smoke and other recreations. In other areas in the south hookah smoking is not so common and a very large section of the hookah smoking population is the Vuslim. In these areas demand is fairly regular from month to month except during the religious or social festivals.

In the case of chewing tobacco the demand does not exhibit any definite seasonality as can be seen from the following figures of average outward tradic in manufactured elewing tobacco from Benares which is famous for the manufacture of chewing tobacco ell over Northern India

Average monthly outward traffic in manufactured chewing tobacco

 y- monning outlear	from Benares	слеиту	tovace
Month		Maun	ds
Jannary		5	5
February		43	3
March		4:	,
April		55	2
Mav		53	l
June		45	2
July		44	1
August		4:	3
September		47	7
October		4:	5
November-		48	
December		39	
		93	,

In Southern India where there is a large consumption of cher ing tobacco small month to month variation is observed during periods of religious and social festivals and harvest seasons. Thus in Coory the demand rises during the period June to September this being a tuny season for farm labour to work in the paddy fields. There is again a rise in demand in December and January when paddy is hivested. In Transaccore the demand irress in April and October on account of local festivals and again in December from the Clirist an people of the Stite. In Uysore the demand is reported to be slightly high from March to June but on the whole appears of the fairly even throughout the year.

The demand for snuff appears to be fairly steady from month to mouth though here again a tendency towards increase is notice able during winter months particularly from November to February During months of heavy rainfall July and August the demand is reported to be slightly smaller

D-Trend of demand

(1) UNMANUFACTURED TOBACCO

No statistical data regarding the consumption of unmanufactured tobacco in India and Burm are available but it appears from enquiries that the general demand is slowly on the rise more particularly for the Virginian type of cigaretic tobacco. This is supported by the statement aboving the net available supplies of all types of tobacco in India (Appendix XXVI) from which it is seen that the per cap ta net supply since 1931 32 has been slightly on the increase except in 1934 35 and 1936 37 when there was a slight full relation to the increase of the increase density in the case of Burma where there has been an increased femand every year except in 1932 33 and 1933 34 (See Appendix XXVII)

(2) TOBACCO PRODUCTS

(a) Cupareties —The annual consumption of eigarettes in Iudia and Burma in 1934 35 estimated at more than 7 500 million eigarettes as compared with the annual estimated figure of about 6500 millions in the beginning of 1929 and under 1050 millions before the War. The beginning of 1929 and under 1050 millions before the War The gravette habit seems to be growing in ever country of the world two factors appear to be primarily responsible for the expansion of the denand in India namely the gradual adoption of western woys the denand in India namely the gradual tion of cheap eigarettes in the market. The popularity of cheap brands has been stimulated better manufacture within the country by European and Indian owned factors and a keen competition between foreign firms and smaller Indian manufacturers who are malling a strenuous effort to obtain a share of this growing market.

This increased consumption of cigarettes in India is in con sonance with the general rise in the demand of cigarettes throughout

the world as seen from the following figures of consumption per capita in some of the important countries —

	Per capita in lb				
	1913	1920	1924	1929	1932
USA	0 60	1 56	1 88	2 7"	2 32
United Kingdom	0 71	1 49	1 73	2 26	2 33
Germany	0 40	0 72	0 90	1 12	1 06
France	0 22	0 31	0 57	0.86	0 9.

Thus in the United Kingdom the per capita consumption of orgarettes in 1932 was more than three times the pre war figure and evidence shows that this increase continues. The greatest impetus to orgarette smoking was given during the last European War and within the last few years the increase in consumption has been largely due to women taking to the habit some of them heing heavier smokers than men to-day. This increasing popularity is also due to the fact that cigarette smoking besides being in some ways cleaner is more convenient in so far as it has the advantage that a cigarette seasily taken and lasts for a shorter time.

In the Punjab the consumption of eigarettes is reported to be on the increase. It is estimated that the demand for medium and high grade eigarettes has decreased by ahout 25 per cent during the last 4 or 5 years but that it is more than compensated by the large increase in the consumption of cheaper brands of eigarettes. The popularity of cheap brands is attributed to the general economic depression the preponderance of low quality brands in the market and their cheapness. In the North West Frontier Province there appears to be an increasing consumption of eigarettes following the growing popularity of cheap brands of eigarettes. In Sind and the Central Provinces also the demand for eigarettes it is reported has been steadyly increasing during the past lew years. In Debit there was an increase of 64 per cent in the consumption of eigarettes during the five years 1930—34.

In the Atzam's Dominions a steady though small increase in the demand for cigarettes for the last few years is reported. Enquiries however show that this increase has been at the expense of bids consumption. Recent years have witnessed a decline in the demand for medium and high grade eigarettes and it has been more than compensated by the increased demand for low grade eigarettes.

(b) Cygars and cheroots—The cygar is a costly smoke and because of this and the long time it takes in smoking it does not find favour with the majority of smokers Besides it is stronger Liican

than a eigarette and bence does not appeal to the younger generation of smokers the demand at present being confined chiefly to the older generation. The others enjoy eigar only as an occasional smoke. The following statement gives the per capita consumption of eigars in a few important tobacco smoking countries of the

	Per capita consumption in lb				
	1913	1920	1924	1929	1932
U S A United Kingdom Germany France	1 72 0 11 1 33 0 16	1 87 0 06 0 99 0 13	1 44 0 05 0 97 0 09	1 32 0 04 1 17 0 09	0 89 0 03 0 92 0 05

It is thus seen that the consumption of cigars in the important cigar consuming countries has been declining steadily. The clust factor contributing to the decline is the growing popularity of cigarette smoking among the people

We notice a striking fall in the consumption in the United Kingdom the chief consumer of our cigars. This is due to a change in the habit of the British smoking public that began hefore the War. It was bowever, accelerated by changed conditions duming and atter the War. The fall in the consumption continued early down considerably since 1932. This is evidenced by the figure relating to the consumption of eigars in the United Kingdom white might seem to the consumption of eigars in the United Kingdom white might be seen to the consumption of eigars in the United Kingdom white might be seen to the consumption of eigars in the United Kingdom white high seem to be seen to the consumption of eigars in the United Kingdom white high seem to be seen to the consumption of the consumption of

In India also the consumption of cigars and cheroots has decreased considerably during the last few years. Most of the cigar factories in Vadras and Burma—the two important centres of manufacture of cigars—which were doing good business in cigars some years back now find it extremely difficult to run to their normal capacity. In Vadras the cigar industry which was employing during its prosperious period about 30 000 people, now hardly finds work for more than 10 000. Besides many of the factories which were working throughout the vear, now work on seasonal bisis or reduce their work during winter months. The industry is also suffered a serious set back in Burna during recent times

- (c) Bidis—The demand for bidis was on the increase until people in India. But due to the introduction of cheap hrands of c garettes into the market and the increasing demand for them, the consumption of bidis is slowly decluing throughout the country The manufacturers of bidis in the Central Provinces an important centre, confirm this view and seem to complain against the growing popularity of the eigarette Judged hy the consumption in other countries the consumption of eigarettes in India is however, remark ably small heing only 20 per head per year
- (d) Others—With regard to other tobacco products the consensus of opinion favours the view that the general demand has been slowly increasing

E -External Demand

(1) EXPORT TRADE THROUGH LAND FRONTIER ROUTES

Export, through land frontier routes of India consist entirely in hobdah and smoling tobaseco. During the past 12 years the export demand through the land frontier routes has ranged from 9 to 11 million lb per year. Since 1932 33 this demand appears to on the decline. The annual average exports for the 5 years ending 1934 55 were 97 million lb as compared with 103 million lb during the quinquennum ending 1929 30. The principal destinations of exports through the land frontier routes are Iraq Afghanistan Central Asa Turkstan Tubet Nepal and Blutan.

Almost the whole of the land fronter trade in Burma is with siam and China The annual average exports during the quinquennum ending 1934 35 were 164 000 lb as compared with 372 000 lb during the jears ending 1929 30 From 1935 36 however, there has been an improvement and in 1936 37 the Burmase land frontier exports were 430 000 lc. All these exports consist of the Burma e cheroot tobacco

(2) Exports by SEA

- About 97 per cent of the mnual average exports by sea from India and Burma consist of unmanufactured tobacco. The important destinations are the U. K. Japan. Aden and Dependencies and Netherlands. The exports of tobacco products comprise eigars eigareties and bodis to a smalke event. The chief mankets for eigareties and bodis to a smalke event. The chief mankets to regars are the U. K. tevlon Straits Settlements and Aden and those for eigareties and bodis are tevlon Federated Valay. States and Straits Settlements. Of the average annual exports of unmanufactured tobacco the U. K. takes 40 per cent the other buvers in the order of importance being Aden and Dependencies. Japan. and Netherlands. These 4 countries together take about 83 per cent of the average annual exports of unmanufactured tobacco.
 - (a) Aden and Dependencies—Indian tobacco is allowed free into Aden and its exports from India to Aden and Dependencies have been definitely increasing from the year 1933 34 In 1936 3; the exports were 83 million lb as against 54 million lb in 1933 34 About 98 per cent of the average annual exports to Aden and Dependencies are from Bombay and about 97 per cent of the aver

age annual exports from all the ports of the Bombay Presidency go to Aden and Dependeucies Aden's trade in unmanufactured Indian tobacco is thus almost entirely with the Bombay Presidency

Almost the whole of the unmanufactured tobacco exported to Aden and Dependences is of the bid and smoking type growing in the Charotar (Gujrat) area of the Bombay Presidency A little our half the tobacco exported comes from Baroda State

- (b) Netherlands—The average annual exports to Netherlands—The around the about two milhou in valued at 2.73 lakls of rupees The exports during the pre-depression period also were about 2 milhou be annually in 1930-31 she imported 2.3 milhou ib but in 1931-33 she took only a little less than a milhou ib but in 1933-34, she took as milhou is the highest quantity she purchased after 1925-26 From 1934-36 showever the exports to Netherlands are declined The import duty on all unmanufactured tohacco cutering Netherlands 14 Florums for 190-blos.
- Netherlands obtains about 87 per cent of her requirements of unautifactured tohacco from her own colony the Netherlands East Indies Ahout 10 per cent is obtained from the United States of America 2 per cent from Greece while India's share comes to about 1 per cent. The demand in Netherlands for Indian leaf is for cheap toheceo like the primings or scraps obtained from Virgis and country orgarette tobacco grown in the Guntur district and the Jat tobacco of North Bengal. The exports from India to Netherlands range from 1 to 2 milhou in per vear, the quantity exported depending on the production in the Netherlands East Indies.

(c) Japan —The average annual exports to Japan are 4 million haused at about 11 lakhs of rupees The exports during the pre depression period (5 year ending 1929 30) average 23 million ib

Till 1934 35 Japan used to take between 1 and 2 million lb elumanufactured tobacco annually from Bengal but from 1935-36 she has been importing almost entirely from Madras The expert to Japan are mostly of the lighter and darker grades of countricipantly to the country of the

The average annual imports of unmanufactured tohaco me Japan are about 190 million in out of which the United States of America supply about 65 million ib (35 per cent.), Philippines 32 million ib (28 per cent.) India 40 million ib (29 per cent.) as China 33 million ib (17 per cent.) All imports from the United States are of the flue cured types used in the manufacture of high grade cigarettes. Imports from the Philippines as almost webling of the cigar types while those from China are of flue-cured led used in the manufacture of cheapt manufacture of the control of the cigar types while those from China are entirely of sun cured country tohaco utilized my mixtures and cheap cigarettes. Small quantities are also imported from Turkey.

It is difficult to forceast the future trend of the demand from Japan on account of the present Smo-Japanese trouble Japan herself grows a large quantity of tobacco the average annual production ranging from 140 to 150 million lb The trend of her tobacco production is on the increase during the past 5 years at the rate of 2 to o per cent per annum, and it is expected that the production will continue to expand at the same rate during the next 5 years, particularly in Korea where the conditions for the production of flue-cured leaf are reported to be encouraging. It is well known that the policy of the Japanese Empire is to become self sufficient as far as possible in all lines of production Exports are heing encouraged and imports discouraged In consequence, the trend of imports into Japan is expected to fall within the next few years. Imports into Japan particularly from the United States and India are fast dwindling for the past 3 years Exports from India to Japan 1936 37 were only 3 million lb as against 56 million lb in 1935 36 In 1937 33, there was a further decline to 23 million lb Imports mto Japan from China, however, are expected to increase on account of the increasing production of flur cured tobacco in China and the lower prices at which China's product is offered for sale in the Japanese market In Japan all aspects of tobacco industry are con trolled by a Tobacco Monopoly Within recent months the Tobacco Monopoly has been required to furnish larger revenues to meet the increasing expenditure of the Japanese Government This has already resulted in an increase in the prices of tobacco products, in consequence of which the consumption in Japan might restricted. It is perhaps not known that Japan herself exports fairly large quantities of unmanufactured tohacco and is trying 10 huld up her trade in this line for the last few years. Her annual exports to China range from 2 to 3 million ib and in 1936 37 China took 77 million lb of Japanese tohacco Egypt takes 3 to 4 million The Japanese exports to Europe also appear to he on the rise though the Japanese tohacco leaf is reported to he quite different in taste and aroma from the American leaf. It is understood that the Japanese exports of unmanufactured tohacco have been well received in Europe, particularly in Germany on account of its cleanliness and standardised quality. The latest report from Germany how ever indicates that the Japanese leaf is inferior in flavour and does not keep its colour for a sufficiently long time. During the past 2 years sales of Japanese leaf in Europe have ranged from 2 to 3 million lb per year

On account of the present trade policy of Japan therefore it appears that India's exports to Japan might still further decline

a)' United Kingdom—(if Total imports of unmanufactured tobacco—The United Kingdom is the world s largest single purchaser of unmanufactured tobacco and over 35 per sent of the exports from the United States the largest exporting country were absorbed in the United Kingdom during the past decade. The imports continue to rise and in 1937 she tool, 464 per cent of the United States exports of unmanufactured tobacco. The bulk of the leaf exported from countries in the British Empire goes to the United Kingdom. The average annual imports of unmanufactured tobacco into the United Kingdom are 230 million lb (213 per cent) are imported from the Empire countries. The average annual imports from the

Lutted States come to 178 million lb or 77 per cent The average annual imports from British India come to 12 million lb or a little less than one fourth of the total average annual imports from all Empire countries and 52 per cent of the total imports, from all countries The imports of unmanufactured tobacco into the United Kingdom during the past several years from different countries are given in Appendix XAIX

(1) Preference on Empire tobaccos—In 1919 imports from Empire countries formed only 4 per cent of the total imports of unmanufactured tobacco in September 1919, the United Kingdom accreded a preference to Empire tobacco to the extent of one sixth of the full rate of duty which at that time represented an advantage of 1: 4d per ib. In 1926 a further inducement to use Empire tobacco was given by reducing further th uniport duty on Empire tobacco to three fourths of the full rate of duty. This gave an adv.ntage of 2: 3d per ib to Empire tooucco. In 1927 an additional duty of 8d per ib was imposed on all tobaccos but no alteration was made in the Empire preference which remained at 2: 4d per ib. The last increase of duty of 8d per ib was made in 1931 and the pre ent rates of full and preferential duty on different type of unmanufactured and manufactured tobacco are as below—

Rates of import duty on unmanufactured and manufactured tobacco

	Rates of di	ty Per 1b
_	Full	Preferential
Unmanufactured_	£ e d	£ . d
If unstripped—		
every 100 lb or more of moisture in every 100 lb or weight thereof	0 9 6	0 7 5
every 100 lb or weight thereof If stripped—	0 10 6	0 8 2
every 100 lb or more of moseture in	0 9 61	0 7 5
containing less than 10 lb moisture in every 100 lb or weight thereof	0 10 61	0 8 3
Hanufactured vsz-	1	
Cigars	i	
Cigarettes	0 18 1	0 14 24
Cavendish or Vegrohead	0 14 7	0 11 5
Cavendish or Vegrober 3 r	0 13 9	0 10 9
	0 12 0	0 9 4
Snuff containing more than 13 lb of	0 12 0	0 9 42
thereof	0 11 4	0.810
Souff not containing more than 13 lb ol moisture in every 100 lb or weight threef	0 12 0	0 10 9

Under the Ottawa Agreement Act of 1932, these rates of duty have been stabilised for a period of 10 years from the date of the Ottawa Agreements with Empire countries (i.e., until August 19, 1942)

As a result of these preferences, the imports from Empire countries increased from 14 million lh in 1919 to 43 million lb in 1928, with a farther rise to 57 million lb in 1937 (see Appendix XXIX) Further increase occurred in 1938 and during the 9 months. January to September 1938, the majorts from Empire countries were 69 million lb India had its share r this rise of imports from Empire countries as will be seen from the following figures —

Imports of unmanufactured tobacco into the United Kingdom from

In	ndia
Year.	Million lh
1919	4
1922	4
1925	8
1925	10
1931	9
1932	9
1933	13
1934	10
1935	12
1936	14
1937	19
1938 (nine months Jan to	Sept 1938) 30

The lower imports in 1931 and 1932 were due to trade depres sion. During these two years the total imports into the United Kingdom from other countries were also small. In 1934 there appears to have been a larger local demand for eigarette tobacco and hence India exported a smaller quantity as compared with her exports in 1933. The imports in 1937 were the highest recorded but in 1938 a fresh record will be established as the imports during the first 9 months of the year January to September 1938 were over 297 million in It its, therefore obvious that the imports from India into the United Kingdom have increased very largely during the past 4 years

(iii) Demand and consumption in the United Kingdom—Figures of imports alone do not give a complete idea about the demand and consumption of unmanufactured tobacco in the United Kingdom Before using for manufacture, the tobacco is kept in stock for at least two years to mature. Besides manufactures prefer to with draw unmanufactured tobacco from the honded warehouses as they require. Clearances from the bonded warehouses for home consumption therefore give a more correct idea about the demand of manufactured. The annual average (for 5 years ending 1936) clearances for mananufactured tobacco for home consumption are about 159 million to (see Appendix XXX) out of which Empire countries

constitute 41 million lb or 25.8 per cent The rise in the consump tion of Empire tobaccos from 1919 the year when preference was first accorded may be seen from the following figures —

Clearances of Empire tobaccos from bond for home consumption in the United Kingdon

the United Ming	uon	
Year	Thousands of	Percentage to total clearances for home consumption.
1919	1 546	101
1922	8 412	5 82
1925	14 580	9 82
1928	26 628	16 62
1931	32 782	19 15
1932	36 970	21 68
1933	40 880	23 66
1934	40 545	22 22
1935	42 064	22 06
1936	45 588	22 66
1937	51 251	24 34
The most constant of		

The great increase in the use of Empire tobacco between 1919 and 1932 was due to the gradual capture by the Empire countries of the pipe tobacco market. It is estimated that by about 1932 the Empire countries captured about 70 per cent of the market for this type of tobacco Since then there has been a further steady advance and it is now estimated that about 80 per cent of the demand for pipe tobacco is met by Empire countries Until recently very little of Empire tobacco was used in the manufacture of cigarettes The coupon system adopted by manufacturers was at its beight in 1933 and since manufacturers of coupon cigarettes used a certain amount of Empire tobacco to reduce their costs of manufacture as the principal types of Empire tobaccos are sold at a rate lower than that for the American there was a sudden rise in the consumption of Empire tobacco in 1933 When coupons were abolished early in 1934 by agreement among the traders a number of brands which had contained Empire tobacco disappeared and there was a check in the use of Empire tobacco which is shown by the 1934 figures Since 1935 however there has been an improvement in the consump tion of Empire tobacco and from 1936 there is for the first time evidence that Empire tobacco is being used in the ordinary established brands of cigarettes

Although Indian egarctic tobacco has a mild and somewhat neutral flavour the egarctic tobacco from most other Empire countries appears to have a distinctive flavour which is different from that of the American leaf As smokers are generally conservative in their taste egarctics manufactured entirely from Empire tobacco have not yet caucht the faner of British smokers. The pipe tobacco moker is less fastidious in his taste and the slight difference in

flavour is not so noticeable in pipe and chewing tobacco as in eigarette smoking. It was, therefore, easier for Empire tobaccos to capture about four fifths of the British market for pipe tobacco The prejudice against cigarettes made out of Empire tobacco, appa rently still remains and therefore it might not be desirable for manu facturers to declare openly that they use a certain quantity of Empire tobacco in their blends for the popular brands of eigarettes When, however, where Empire tobaccos are blended with American, and no reference is made to the use of Empire tobacco, the cigarette smoker has accepted the cogarettes and as time goes on be will no doubt learn to appreciate the flavour of blends containing Indian tobacco parti cularly

On the other hand, it may be pointed ont that though the preference was largely responsible for the expansion of imports of Empire tobacco, some credit is no doubt due to the gradual improve ment in its quality so as to approach that of the American types for which the English consumer has developed a taste. Improve ment in quality has been particularly noticeable in the leaf imported from India during recent years and it is understood that this factor has enabled the British manufacturer to use it in larger quantities for blending with the American in the manufacture of some of the popular brands of cigarettes

The average (for 5 years ending 1936) annual clearances of Indian tobacco for home consumption come to about 10 million lb or 63 per cent of the total withdrawals for consumption in the United Kingdom The trend of consumption of Indian tobacco during the past seven years may be seen from the following

Clearanese of Indian tobasses for home some

	Kingdom	consumption in the Unit
Y_{ear}	•	Thousand Ib
1931		9 125
1932		9 380
1933		9 487
1934		9,567
1935		9 811
1936		11 596
1937		14 363

It is evident that there has been a growing appreciation of the quality of Indian tobacco which has led to a marked increase in its consumption by British manufacturers in recent years

(11) Types of unmanufactured tobacco in demand and recent advances in quality of Empire tobaccos particularly Indian tobaccos—The type of unmanufactured tobacco demanded by British manufacturers is determined by the type of manufactured article demanded by consumers. The three main forms in which tobacco is consumed in the United Kingdom are cigarettes cigars and pipe tobaccos Apart from the rise in the total consumption of tobacco there has been an enormous difference in the relative position of the three products of manufactured tobacco consumed in Britain

during the past 30 years as will be evident from the following figures ---

Estimated annual consumption of different tobacco products in the United Kingdom

	C gare	ttes	Cig	ars	Prpe to	bacco	Snı	ıff	Tot	tal
	Million lb		Milhon lb		Million lb	Per cent	Million 1b	Per	Million lb	Per cent
1907 (a)	°3 1	د)	3	4 2	59 1	67 9	12	1 4	87 1	100 0
1924 (b)		1	10	1 1	əl 7	39 5	0 4	0 3	131 0	100 0
1930 c)	114	68	1 2	0 7	49 7	30 0	10	0 6	165 9	100 0
193 ₃ (c)	126 0	73 1	11	0 6	413	2o 8	0.9	0 5	172 3	100 g

The enormous rise in the popularity of eigarettes and the fall in the consumption of eigars and pipe tobaccos during the last three decade are et dent. The further possiblities for developing the market i r Emi 1e t bacc s 1 the United Kingdom appear to lie entirely is the t pe of tobacco required in the manufacture of eigarettes The tact that about 9. per cent of the American tobacco imported into Br tain is of the V rginian flue cured type seems to indicate unmistakably the choice of the United Kingdom in favour of that type

The type f leaf required in the manufacture of eigarettes is of a light colour (yellow to bright lemon) medium to good and fine in texture with the least possible damage and blemish and pleasing aroma Detailed statisties for each of the types of unmanufactured tobac imported into Britain are not available but since the begin ning of 1934 the Annual Trade and Navigation Accounts of the United Kingdom have been recording separately imports classified by dark the term light covering flue cure !

sun and fire cured and Burley

The following

tobacco and

dark (a Great Brits n and Ireland

⁽b) Gre t Britain

⁽c) Great Br tain and Northern Irela 1

⁽See Imper al Econom c Comm ttee s report on tobacco 1937)

figures analyse the imports into Britain from the Empire coun tries $-\!-\!$

Imports of unmanufactured tobacco into the United Kingdom from Empire countries

	Lagi	Laght		Dark		Total		
Year	Million 1b	Percent age rise (+) or fall (-) over pre ceding year	Million	Percent age rise (+) or fall (-) over pre ceding year	Million lb	Percent age rise (+) or fall (-) over pre ceding year		
1934	29 8		18 8	1	47 6	Ī		
1935	25 9	-10 1	19 2	+21	1 45 1	-52		
1936	31 1	+20 1	21 7	+13 0	52 8	+17 1		
1937	33 9	+9 0	23 5	+83	57 4	+87		

It is evident from these figures that on an average about 5, type During these four years however the general rise and changes between proportions of light and 'dark' of the imports from India have been more interesting as will be evident from the following figures —

Imports of unmanufactured tobacco into the United Kingdom from India

	Ligh	at .	Dar	k	To	tal
Year	Million 1b	Percent age rise (+) or fall(-) over pre- ceding year	Villion 1b	Percent age rise (+) or fall(-) over pre ecding year	Million 1b	Percent age rise (+) or fall (-) over pre ceding year
1934	4 8	1	50		9 8	j
1935	5 2	+83	6.4	+28 0	11 6	+18 4
1936	7 5	+44 2	62	_3 I	13 7	+18 I
1937	11 6	+51 7	7 6	122 6	19 2	±40 1

It is apparent that imports from India have risen by a laige, proportion than the total Empire imports. Between 1934 and 1937 imports from India imcreased by shout 93 per cent as against only 20 per cent from all the Empire countries. As compared with 1934 the imports of bight tobaccos from India increased by 141 per cent and those of dark types by 52 per cent in 1937. On an average over half the imports from India vere of the 'light type suitable for manufacture of eigarettes though in 1937. India is proportion of light indi dark was 61 per cent and 39 per cent respectively.

The bulk of the Indian tobacco shipped to England was how ever till recently considered unsuitable for eigarettes and use in the manufacture of pipe tobaccos particularly in the cheaper grades of shag Export of high grade eigarette leaf from India to the United Kingdom commenced particularly from the year 1934 35 since when the exports of this type of leaf are increasing and having been found suitable for the manufacture of cigarettes British manu facturers have now begun to tale a keen interest in Indian tobaccos There is a growing volume of evidence to the effect that Indian light flue cured tobacco being neutral in flavour is definitely more suitable for blending with other grades of leaf and for use in the manufacture of cigarettes and that the United Kingdom might constitute a considerable market for this neutral Indian leaf if and when sufficiently large quantities are readily available collected by the Imperial Economic Committee in 1936 37 clearly indicates that if quality is maintained and improved if adequate and regular supplies of high grade leaf become available and if satis factory marketing arrangements are devised there are fair prospects for an expansion in India's shipments of tobacco to the United Kingdom

Almost the only area of importance in India exporting unmanufactured tobacco to the United Kingdom is Guntur in the Madras Presidency Evidence collected in this area indicates that since 1934 35 90 per cent of the exports to the United Kingdom are of the Virgima flue cured type the rest being Virgima sun cured and the first grade of sun cured country (Natu)

Indian flue cured virginia tobacco is thus appaiently trying to catch the fancy of British manufacturers. The United Kingdom imports on an average 230 million ib of which the Empire contribution comes to only about 49 million lb and India s share is about 12 million 1b.

Almost all the fine sured leaf is strepped before export from India excepting the first grade while sun suited country is exported unstripped except the first grade. The production of the first grade total though for the small be ng estimated at 5 per cent of the about 10 per cent. That is grade Vafu (country) tobacco forms about 10 per cent. That is grade Vafu (country) tobacco forms The built of the exported leaf is therefore now being stripped before despatch. The advantages of expering stripped leaf are obvious

in view of the heavy import duty in the United Kingdom the saving in freight on the transport of stems and the lower costs of stripping in India Indian exporters have realised this during the past four years and figures of imports of Indian tobacco into the United King dom show that imports of stripped leaf are rising fast while those of unstripped leaf have largely declined as can be seen from the following table —

Imports of Indian unmanufactured tobacco into the United

	(Million lb)		
Year	Strips	Leaf	Total
19 4	6 8	3 0	98
1935	8 9	2 7	11 0
197n	1. 8	11	13 7
1937	18 1	1 1	19 2

There are therefore hright possibilities for Indian tobacco in the British market. This market however is most critical and if India wants to expand her trade in unmanufactured tohacco with Britain she must not only maintain and improve the quality of her produce but assure the British manufacturers of a consistent supply of specific quality from year to year. It is well known that manu facturers of cigarettes and pipe tobaccos cannot afford to make any appreciable change in the taste and flavour of their products from year to year and if India wants them to use her tohacco in their blends they must be assured of a consistent supply of uniform quality It has taken this country several years to convince the manufacturers in England that she can produce Virginia flue cured leaf of a quality as good as any produced in other parts of the British Empire and to follow this up and improve our reputation still further it is essential that immediate steps should be taken to improve the methods of marketing particularly with regard to the adoption of standard methods of processing grading and packing especially of tobacco shipped on consignment. These subjects will be referred to in detail later

INTER CHAPTER TWO

Over a thousand million pounds of tobacco are consumed annually in India. All the produce must pass through the process of manufacture except perhaps in the case of some *hookah* and chewing tobaccos. The annual consumption per head averages 29 lb per annum in India and about 64 lb. in Burma. Incidentally it may be observed that the consumption in India approximates to that of France, and the high rate of consumption in Burma corresponds roughly with the figures of the United States and the Netherlands.

The demand for tobacco in its various forms differs from one part of the country to the other Cigarette smoking is becoming more fashionable throughout the world and India is following the fashion

The highest late of consumption of eigalettes, viz, fifty four per head per annum is found in Sind and is mole than 21 times the average for the whole of India The consumption is also high in Assam, Bombay, Baroda and Mysole, although the biggest total annual consumption is in Bengal Other outstanding provinces apart from Bombay are the United Provinces, Bihar and Orissa Madras and Nizim's Dominions

The per capita consumption in Madias and the Umited Provinces represents only 10 agarettes per annum. This is due to the fact that in Madias the consumption of cigars and cheroots is enormous, being 372 per head per annum while the low rate of consumption in the Umited Provinces is associated with a high consumption of hookuh, chewing and smift tobaccos, viz, 44 lb per head per annum. The next largest consumption of cigars and cheroots is only 5 cigars and cheroots per head per annum found in the Nizam's Dominions.

This is closely followed by Bengal with 4. The highest consumption of hoohah, chewing and snuff tobaccos is in the N W F P at 63 lb per capita per annum followed by the United Provinces with 44 lb. As regards the annual consumption of bidis, Sind takes the lead with 687 and Nizam's Dominions are a close second with 664 per head. The consumption of bidis is noticeably low in the North West Frontier Province and the Punjab where the figure is only 1 and 5 per bead per annum respectively.

Tobacco chewing is prevalent in Madras Mysorc and Travancore are also heavy consumers of chewing tobacco and large quantities of a special type (Jaffina) are imported annually from Cevlon into Travancore for this purpose In Bihar, United Provinces and Bengal also chewing is popular. The use of shuff is prevalent in the North West Frontier Province and to a certain extent in Madras and other areas.

The rate of consumption of cigars and cheroots in Burma is enormously high being 547 per head per annum

It is important that growers should realise the special qualities required by manufacturers. Fine-cured Virginia eigarette tobacco should have a bright lemon colour and a fine silky texture with very little blemish or damage. Similar qualities are required for sun cured eigarette tohacco but the colour in this case is not so bright. Cigar leaf should be a uniform brown colour preferably without any greenish tinge and have a good continuous burn, a strong agreeable flavour and pleasant aroma, and the leaves should be large. Similar characteristics are required in the case of cheroot leaf Bidi tobacco should consist of strong thek leaves which can be broken into small pieces. (bidi powder). The colour should be a light orange vellow and greenish in the Gujerat area, but brownish red is expected in Nipani

tobacco by buyers in Sind, Rajputana, Central provinces and elsewhere *Hookah* tobacco leaf should be broad, ecaise and thick with thin viens, strong flavour, slow continuous burn and of a brown earthy colour. Thick ness and good body is required in the leaf of chewing tobacco which should be reddish brown and with a good biting taste. For sinff the tobacco should be strong in flavour with a bright yellow coloni and the leaf should be brittle.

It seems equally important that the manufacturers of tobacco products should realise that the quality of the various products required by individual consumers and also in different districts, varies considerably. Some smokers piefer a strong flavour and others mild. This holds true in all cases whether for cigariettes, eigars, bids or hookali.

The majority of the people in the north prefer a strong hookah tobacco and in the west they prefer strong bids: tather than milder types favoured in other parts of the country. In the south the preference is for a strong cheroot while in other parts of the country mild eight and cheroots are preferred.

There is no particular periodicity in the consumption of tobacco products but the general tendency is for less to be smoked during the hot whether and the name than in the cold weather. Manufacturers, however, preter to buy most of their requirements immediately after the harvest and on this account tobacco growers are in a much more favourable position than other agricultural producers. It seems clear that the manufacturers and processors are anxious to get supplies as soon as possible after harvest mainly because the quality is better at that time and although it will improve on keeping this can only be ensured if the subsequent processing and storage are carefully and properly done. Manufacturers, there fore, prefer to do this themselves and well over half of

the manufactured tobacco is bought up during the post harvest months, March to July

The general trend of tobacco consumption in India is upward, particularly in the case of cigareties. It is difficult to say whether the growing popularity of the cigarette is adversely affecting the consumption of hoolan tobacco. There seems no doubt however that it has affected the consumption of hids and seriously reduced the use of cigars not only in this country but abroad

In Madias for example the cigar and cheroot industry which employed about 30,000 people during its prosperous period can now hardly find work for more than 10,000. Similarly the export trade in Burma cheroots has suffered a serious set-back in recent years. This tendency is of overwhelming importance from the growers' point of view and particularly of those growers who are producing tobacco for export. Three or four years ago the United Kingdom, which is the largest buyer of Indian tobacco, bought more dark than light tobacco from this country, but the amount of light tobacco has increased rapidly in the last few years.

In the course of 5 or 6 years the imports of unmanufactured tobacco into the United Kingdom from India have more than doubled. As a result of the Preference the proportion of Empire tobacco consumed in the United Kingdom is now over 24 per cent of the total, and has been rapidly increasing. The amount of Indian tobacco used has increased still more rapidly, which seems to show that buyers in the United Kingdom are now beginning to appreciate the good quality of Indian eigarette leaf. It is, however, essential that in those areas of this country which are considered suitable for the production of Virgima eigarette tobacco, the growers should realise the great importance of quality and continue their efforts to improve it

It is not only a question for growers, however, since the demand in the United Kingdom is mainly for leaf which has been properly stripped (i.e., with the mid nb removed), reconditioned, graded correctly for colour, texture, etc, and properly pressed and packed The individual grower is not capable of undertaking the highly skilled and somewhat expensive processing involved. It is therefore important that exporters and owners of reconditioning plants, which have been in creasing recently should realise their responsibilities in the matter and take every possible step to munitain and im rove the character and reputation of Indian tobacco exported abroad

The export trade with Japan presents certain difficulties and its future seems problematical since Japan itself produces and exports unmanufactured tobacco to Europe, particularly to Germany, where it is claimed that on account of its cleanliness and standardised quality it is being well received in spite of its inferior flavour and poor ke ping quality. The exports of Indam suncured country tohacco to Japan do not normally commence till September and producers and the trade are in this case rather at a disadvantage in so far as they are not aware of the requirements of the Japanese Tobacco Monop by till six months after the crop has been harvested.

There is no reason why the present export of "primings or scraps" to the Netherlands should not continue and be expanded, but such tobacco should be clerrly marked at the time of export to distinguish it from the high quality eigarette type. Some consideration needs to be given to Indian producers of cheroot leaf who have an export trade with Burma. In view of the decreased consumption and export of eheroots it would be desirable for the agricultural departments concerned—particularly in Bengal—to give their immediate attention to the possibility of producing other types in those areas

aft

A —Introductory

Few other agricultural products show such large range of quality as tohacco. The quality varies even in the same type variety and season from district to district and often from one field to another particularly in the case of indigenous types of tobacco. There have been hitherto no recommized grades of the different qualities and a is therefore almost impossible to ge any price series which will give a dependable idea about the territorial and periodical variation 1. prices The fact that merchants from distant areas and even tion England have to visit either personally or through representatives (the tohacco producing areas for making direct purchases and catego strongly that written contracts specifying requirements by calling, for samples by post are not possible under the existing circumstances It may be mentioned incidentally that due probably to these difficir? ties that forward contracts in any form are not current excepting my the case of Virginia flue cured cigarette leaf for which some huyers, enter into contract with growers for delivery of leaf of different qualities at prices specified in the contract as will be explained lat r in the chapter on Assembling The chances of introducing i futures market for this commodity appear remote Official price

in the chapter on Assembling The chances of introducing i futures market for this commodity appear remote. Official price quotations available in extremely few cases have very little commetrical use in connection with trade between producing and consuming centres as they specify neither the type nor the quality. They are apparently all that can be expected under the existing trade methods and in the absence of any definite system of classification and grading, and these absence of any definite system of classification and grading, of tobacco found in the market. Growers seldom keep any record, of prices realised excepting possibly some of them in the Charotar areas of Bombay Presidency while in the case of a few big tobacco mechants who maintain accounts it is difficult in most cases to frace the trend of prices backwards for more than a few years. Besides their account books give no indication of quality and as such the prices extracted from, then, do not, form a uniform sense, in the figure cumulations in prices of some of the important years of the available data the general trend of seasonal sum and any arrations in prices of some of the important types of totakene grown and sold in different parts of the country

B-Trend and seasonal variations in prices of cured tobacco erest

(1) CIGARETTE AND PIPE TOBACCO

(a) Virginia flue-cured—(1) Guntur—The average harvest prices of raw Virginia flue-cured eigarette tobacco in Guntur district

during the past eight years were as below -

Harvest prices of raw five cured 1 erginus eigarette tobacco at Guntur

	Year	Price per exhiby of 500 fb.	Percentage rase (±) or fall (-) over the preceding year
		Rs	
1930		128	1
1931		1"8	1
1932		154	±20 3
1933		148	1 ~- 3 8
1934		12-	-14 2
1935		143	+12 6
1936		150	+ 4 9
193"		18	+24 7

It is apparent that prices are risine rapidly since 1895 and in 1937 they were about 46 per cent higher than in 1930. The leading buver of ciractic leaf in Guniur (the Indian Leaf Tobacco Development Co (India) Ltd] generally purchases on the basis of prices of sufferent trades specified in the contract made by the firm with growers. The contracted prices have been 9 annas per pound for the fourth grade and I ama per pound for scraps and rejections. The averace 1 rice paid by the firm ranged between 4 to 5 annas per pound durine the six veers ending 1936 but in 1937 an averally of about 6 annas per pound was paid owing to the high level of prices prevailing during the season.

The statement in Appendix XXXI and the discrain facing race 77 show the monthly buying prices of merchants as extracted from the books of two exporting firms at Guntur. The prices in high immediately after harvest unlike many other types of tobace and almost all the other agricultural products. Colour is by far the most important factor determining quality of occarcitic leaf and sinceri rapidly deteriorates under ordinary uncontrolled conditions of storage and temperature growers try to dispose of their produce immediately after account of the storage of the produce immediately months after curing are usually of poorer quality and it is for the reason that the growers prices of cigartite tobacco immediately after harvest appear relatively high. Sale of cured leaf comments by about the middle of Jannary when fancy prices are asked for fy growers particularly during the past 4 years. Prices generally risk high during February to May by which time most of the growers.

sell off their crop Till the end of 1933, a few substantial growers used to hold over a small part of their crop to be sold during the latter part of the year, but realising the difficulty of storing under ordinary conditions, they now part with their produce immediately after curing, Re-conditioning, which should be done as soon as possible after curing, and subsequent storage of eigarette leaf require special large scale equipment and facilities that are expensive and hevond the requirements of individual growers

(ii) Mysore—Virginia fine enred leaf is being grown in the Mysore State on commercial lines only during the past o years and the average prices realised were as helow—

Prices of ran flue cured Virginia eigarette tobacco at Whitefield near
Bangalore

		Bang	alore				
Year				Average	pra	e per l	Ъ
				R_5	A	P	
1933				U	5	4	
1934							
1935	•			1	4	2	
1936				0	ð		
1937				0	в	0	

The area is vet small and almost all the leaf is sold off during November to January The following figures show the prices realised for different grades during the past 3 years —

Grade No	1935	1936	1937	
	Rs A P	Ps 4. P	Rs 4. P	
1	0 9 0	0 10 0	0 10 0	
n	0 8 0	0 8 0	0 10 0	
ш	0 5 0	0 6 6	0 8 0	
17	050	0 6 6	080	
V	0 2 5	0 2 6	0 2 6	
VI	016	0 2 0	0 2 0	
Dirk green	016	0 2 0	0 2 0	
Scraps	0 1 6	0 1 0	0 1 3	

⁽¹¹⁾ Saharanpur (U P) —The few growers who produce fluecured leaf round about Saharanpur and Jhansi in the United Pro-Vinces, dispose of their tobacco to eigarette factories in India by Private negotiations on the basis of samples of different grades. The

average prices realised for different grades during the past three years

regist 1
Reaces realised for raw flue cured Virginia cigarette leaf at Saharan

alta Suta Pu ar a	(Ann	par ne per lb)		
11 11 tree	Grade No	1935	1936	1937
I I		11	9	10
IIIqt 2		9 1	5	6
IV		3	4	4

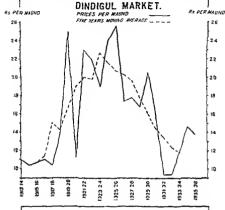
In this area too the leaf is sold off immediately after it is ready for the market during October and November

(b) Virginia sun cured—The production of Virginia sun cured of the cured) is small. Although a little is done in Saharanpur and other areas the production is mainly conflict of Quintur district in Mackes. The area estimated in 1934 30 was about 2000 acres but from 1936 36 onwards the area and quantity of Virginia leaf prepared by the rack cur nor mell of las considerably declined due to the increasing prices prevailing for flue cured leaf and as such sales of Virginia sun cured leaf from 1935 36 have been small and occasional The following figures denote the average annual prices of Virginia as an enter leaf during the four years endine 1939.

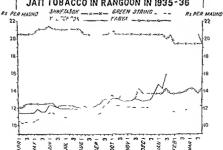
, Prices of Virginia sun cured raw leaf

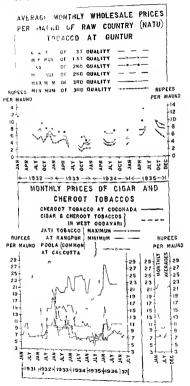
4,		upees per maur		eaj			
(01 0 e		Quhty I Quality II					
0 F	Xetr	Max m m	M nimum	Maximum	Minimun		
1939		9.5	6 5	6 4	4 3		
19 3 3 j		63	3 9	3 9	19		
1934		8 6	5 4	5.4	2 9		
1631) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		10 0	-0	6 6	4 4		

AVERAGE ANNUAL EX-FACTORY PRICES PER MAUND OF CIGAR TOBACCO AT



WEEKLY WHOLESALE PRICES OF IMPORTED JATI TOBACCO IN RANGOON IN 1935-36





The pieces thus dropped in 1935 but recovered during the next year and in 1935 were high In 1936 and 1937 the quantity available was small

The statement in Appendix XXXII showing the monthly prices and the diagrim facing pive 77 indicate that the prices rule high in April and May, i.e., immediately after hivesting and curring. In 1934, however, the prices suddenly rose from September and continued to be high till the end of the year, due to the large Japanese demand in that year.

(c) Country tobacco—(i) Guntur—The average annual prices of country (Adu) tobacco grown in Guntur district during the past 5 years were as below —

Prices of country (Natu) ray tobacco at Guntur

Prices of country (Natu) ran tovacco at Guntur				
	λear	Per candy of 500 lb	Percentage use (+) orfall (-) over the preceding year	
		Ra		
1932		57		
1933		30	-47 4	
1934		30		
193a		54	+80 0	
1936		j 43	-20 4	
1937		٥٥	+16 3	

Prices were thus low in 1933 and 1934 during which period the prices of Virginia flue cured leaf also were low In 1936 there was a sharp rise followed by a decline in 1936. In 1937 the prices rose by about 16 per cent over the previous year. Japan is the largest single burer for this type of tobacco and the Japanese demund has monise on the considerable influence in the determination of its price. In 1934 35 the export, to Japan were the highest during recent years and hence there was a siddlen rise in prices in 1935. In 1935 36 also Japan tokes the prices dropped down by about 20 per cent. In 1936 due chieft to the fall in internal demund for Virginia flue curied leaf. In 1937 the prices recovered by over 16 per cent. on account of the general rise in prices of several types of tobacco.

Appendix XXXIII and the diagram facing this page show the monthly trend of prices. The prices are generally high in April to June commence to fall by July but rise again by about October November. Shipments to Japan commence by about September and any variation in these shipments affect the prices during the latter part of the year. The prices in April to June are high as the hest quality leaf is offered for sale during this period.

(21) Bihar -Desi tobacco grown in North Bihar used to be bur chased by one firm in fairly large quantities till 193; for the manu facture of cheap cigarettes but from that year onwards the demand has considerably fallen and now practically reached a vanishing point The average price paid for raw leaf ranged from Rs 866 to Rs 8 10 6 per standard maund or roughly 1 anna 8 pies per lb it 1935 This fall in demand and price is said to be due to the parti cular earthy flavour of B har tobacco which does not improve even after prol need storage and blending with other tobaccos

(2) CICAP AND CHILPOOT TORACCO

(a) Madras -- Dindigul Trichinopoly and Madras are the most important cigai n anufa turing centres in the country. The diagram tacing page 117 and the statement given in Appendix XXXIV indicate that the average annual eight leaf prices during the post-depress on years are considerably above the pre-war level. The highest prices were paid during 1925 26 but in 1931 32 and 1932 33 the prices were extremely low even lower than the pre war prices due to the effects of the trade depression. Flere has been however a recovery since 1933 34 The long period average prices during the past 23 years were as follow

Average price per man					
Rs	A	P			
10	11	0			
19	0	0			
20	12	0			
14	10	0			
13	8	0			
	Rs 10 19 20 14	Rs A 10 11 19 0 20 12 14 10	Rs A P 10 11 0 19 0 0 20 12 0 14 10 0		

It can be seen therefore that the price level was at its height during the quinquennium ending 1927 28 The sudden drop during the next five years ending 1932 33 was due to the low prices prevail mg during 1931 32 and 1932 33

A reference to the following figures shows that the manufact turer s average annual buying wholesale prices of Trichinopoly cigar fillers have been stationary since 1931 except in the year 1935 when the price rose and nearly reached the pre war price level The increase in the prices in 1935 was about 25 per cent as compared with the previous year

Average annual process of Trusterend nά

wase an	ra cecta	prices	o_I	Trichinopoty	cegar	fillers a	ŧ	M	aar	2.
Year						Price	р	er	mau	m
						R	8	4	P	
1910						31	'n.	10	0	
1915						1		5	0	
1920								2	0	
1931						2		_		
1932		-					8	3	0	
							8	3	0	
1933							8	3	0	
1934		_		_			8	3	0	
1935							_	-		

The available information shows that the bighest prices were received in 1920, but from 1921 the prices declined

At Dindigul orders are placed on samples. In some years only one price is paid, in some two or three merchants sell, each at different prices. Ordinarily, eigar tobaccos available in the market, are a combination of wrapper, binder and filler, the larger the proportion of wrappers the better being the price offered. The three kinds, u.z., wrapper, filler and binder are not sold separately. A commercially good type is one which serves for all uses, u.z., wrappers, binders and fillers, in the manufacture of eigars and cheroots. A variety like Usikkapal fetches better prices on account of its distinctive flavour.

The prices of the Lankas cheroot tobaccos during the three venis

	Price		Percentage	
Quantity	1933	1934	1935	fall (-) (1933 35)
	Rs	Re	Re	!
Lankas (Baru or Long)	20 0	23.5	21 o	+8
Lankas (Mattasam or Medium)	14 0	13 3	11 6	_17
Lankas (Kurchs or Small)	8 3	6.6	6 6	20

It can thus be seen that while the prices of the first quality rose in 1934, the prices of the second and third qualities declined. The prices in 1935 were about 8 per cent more than in 1935 for the first quality, but those of the second and third qualities declined by 17 per cent and 20 per cent respectively during the same period. In 1936 and 1937 the prices improved considerably as can be seen from the statement in Appendix XXXVI

The Mettupologem chervot tobacco was selling at Ks 16 per mand in 1934 35, Rs 12 80 in 1935 36 and Rs 14 in 1936 37 Cannanore Tobacco from Chebrole in Guntur district used locally for cheroots is considered to be an expensive type of tobacco as it is in great demand in Guntur district and round about hecause of its strength and sells at Rs 50 to Rs 60 per maund

Apart from the general conditions of supply and demand, the year to year variation in prices are very largely due to variations in quality on account of seasonal factors

Appendices XXXV and XXXVI and the diagram facing page 117 give the average monthly prices of West Godavari and Lankas

eight and cheroot tobaccos. The growers' marketing period is normally from April to September, though fresh leaf begins to appear on the market in March. In the case of Godaun tobacco the prices begin to tall from January till they reach their minimum in March from which time onwards the prices continue to be low till July when they begin to rise, reaching the maximum limit sometime in December. In the case of Lankas tobacco the mouth to month variation in prices is small the lower level is usually reached in February and March when the new crop is about to come in the market and from Ottober to November by which period better quality tobacco is sold away to manufacturers. Prices are generally high in April to June and from July commence to decline

(b) Bengal—The Jat: tobacco (known to the trade as Pools Common, Pools Good or Bheng:) is largely used in the manufacture of Burma cheroots

The average prices realised for *Bhengi* tobacco grown at the Government Buurhat Farm near Rangpur during the past thirteen years were as under —

Year		Price per maund	Percentage rise (+) or fall (-) over the previous year
		Rs a P	
1924 25		10 0 0	
1925 96		14 0 0	+40
1926 27		13 0 0	_ 7 0
1927 28		18 0 0	+38 5
1928 29		35 0 0	+91 1
1929 30		15 0 0	_57 1
1930 31		5 8 0	-63 3
1931 32		800	+45 5
1932 33		10 0 0	+25 0
1933 34		11 0 0	+10 0
1934 35		8 9 0	—22 2
1935 36		8 13 0	+ 3 0
1936 37		10 10 6	+20 6

Considering the rise and fall in prices during the past 12 years it will be seen that a rise was recorded during 8 out of 12 years. The prices reached their maximum in 1928 29 just before the depression

commenced, but from 1929 30 the prices declined greatly reaching their minimum in 1930-31, the first year of the depression From the next year, however the prices recovered and in 1933 34 were double the prices prevailing in 1930 31. In 1934 35, there was a fall of 22 per cent but from 1935 36 they have recovered and the present level of prices is slightly higher than that prevailing in 1924 25.

The statement in Appendix XXXVII shows the prices realised for the different types of eight and cheroot tobaccos grown at the Government Burntals Farm It will be seen that the prices of imported "varieties have dropped down to a greater extent than those of the local variety Bhengi. Thus in 1935-36 the price of Sumatra variety, quality (a) was only one-eight of the price prevailing in 1924-25 Similarly the corresponding price level of Sumatra (b) quality was one seventh of (c) quality one fifth and of Vanila and Pennsyltania one eight. The price of Burmess Hatana in 1936-37 was only a tenth of the price ruling in 1924-25. These exotic varieties however are not grown commercially to any extent and the price quotations refer to small quantities produced experimentally on a Government Farm.

The average annual merchants buving prices of Jati tobacco at Rangpur were as below —

Average prices of Jali tobacco at Ranapur

Year	Price per	Price per maund			
		Rs	A	»	
1927		18	0	0	
1928		20	0	0	{ +11 1
1929		12	0	0	-40 0
1930		В	0	0	-33 3
1931		6	0	0	-00
1932			0	0	+ 16 "
1933		10	8	0	+50 0
1934		7	12	0	-96 2
1935		a	4	0	+64
1936		10	0	0	+21 2
1937		1 10	a	0	+50

Out of 10 years six years recorded a rise in pinces. The sudden drop in prices from 1929 compares with the figures given earlier In 1930 to 1932 the prices were very low due to trade depression. In 1933 they recovered followed again by a drop during the next yer-From 1935 the trend appears to be definitely upwards.

The middle leaves of Jah tohacco are called Poola which is sidervided into common and good in the Calciutt maril et. The state ment in Appendix XYXVIII and the diagram facing page 117 show the average monthly prices of Ioola (Common) tohacco in the Calciutta maril et as published in the Calciutta Prices Current and Money Market Report 'published by the Bengal Chamber of Commerce. It is the Poola leaf which is exported in large quantities to Burma for the manufacture of e.gars and cherosts.

The taten ent shows that the prices declined from 1930 to 1972 recovered by about 30 per cent m 1933 but fell again in 1934 From 1930 bowever the trend of prices appears to be on the rise The prices of Poola (Good) in the Calcutta market are about 8 to 12 amns per maind more than those for Poola (Good).

Appendix XXXIA and the diagram facing page 117 give the mothly prices of Jats tobacco at Rangpur during the past 5 years. The tobacco is harvested in February to April the normal marketing season being May to October The price level immediately after harvest is low particularly from May to August By September it commences to rise and reaches a high level in January and remained at Rs 11 per manual from August to April It appears that the month to month variations in prices are smaller in a termical and distributing market like Calcutta than those in price prevailing in a primary and secondary market like Rangpur (see Appendices XXXVIII and XXXXIV)

(c) Burma—The statement in Appendix XL shows the average monthly prices of Burmese eight and chervoit tobaccos in three important markets in Burma as published in the Burma Gazette Trefigures show that at Henzie the prices ranged from Rs 2 140 per maund in 1934 35 to Rs 16 per maund in 1934 33 and 1935 34 per maund in 1934 35 to Rs 16 per maund in 1934 33 and 1934 35 to Rs 16 per maund in 1934 35 to Rs 1

The average annual prices of the wellknown Dest cheroot tobaccos grown in the Shwegym area of Burma as obtained in the

Rangoon market during the past 3 years, were as below -Average annual prices of Desi (Shuegyin) cheroot tobacco in Rangoon market

(Per maund)						
Quality	1934 35	1935-36	1936 37			
	Rs A. P	Rs A P	Rs A F			
1	10 4 0	12 8 0	14 13 0			
п	7 15 0	9 14 0	12 9 0			
m	5 12 0	780	9 2 0			
IV	4 9 0	600	7 9 0			

Giving equal weight to the four qualities since their relative pro portion is not known, the average annual price was Rs 720 per maund in 1934-35 Rs 8 15 6 in 1935 36 and Rs 11 in 1936 37 Thus in 1936 37 the prices were about 54 per cent higher than those pre vailing in 1934 35

The following figures indicate the trend of prices of different varieties of local cheroot tobacco sold in Myingyan market

Average annual prices of different varieties of cheroot tobacco af Myingyan

TD	 4	١

(Per maund.)							
Vanety	1934 35	1935 36	1936 37	Percentage fall (—) 1934-35 to 1936-37			
	Rsap	Ra. A P	Rs A P				
Hee gys Ywe Yaung	13 5 0	10 4 0	920	-31			
Hee-gys Hnasa-hman	11 11 0	8 21 0	800	-31			
Нее дуз Нпава-ри	970	6 14 0	5 12 0	39			
Hee-lat	6 5 0	4 12 0	3 12 0	-40			
Het-pat	400	3 3 0	300	25			

It is significant to note that the prices of these varieties declined by 25 to 40 per cent during the period 1934 35 to 1936 37 as against a rise in the Shwegvin tohaccos during the same period. It may further be noted that while Shwegyin tobaccos are used in the marfacture of superior cheroots the varieties sold in Myingyan at generally used in the remunfacture of cheap torch cheroots I appears therefore that the prices of better quality tobacco are rising while those of inferior quality are declining

The tobacco leaf imported into Burma from Rangpur and Coci Behar in Bengai was Calentia is Inovin by different Burmese commercial names lile I wetchoon, Skuedasok, Kabya and Green String Vuctchoon is used for making cheroots while the remaining three air utilised in the manufacture of ord cheroots of different qualitics and for chewing In 1935 36 the average prices of these 4 cm mercul it yes in the Rangoon marlet were as below —

	6	 were a	18 116	10W -			
				Per	mai	and	
Shwetasok				Rs	_		
Kabya				18	5		
Green String				13 11	8	0	
Ywetchoon				12	-		
The statement				12.	11	U	

statement in Appendix XLI shows the average weekly prices of these four varieties prevailing in the Rangoon market in 1935 36 The figures and the diagram facing page 11fi indicate that in the case of Shuetasok the prices rule low during February and March From April they commence to rise and reach maximum June In July there is a slight fall which continues till the end of September In October there is a slight rise but afterwards to prices continue to fluctuate within a small range of Rs 20 to Rs 2080 per maund till the end of January In the case of Kabua April to August app as to be a pund of low prices which range from Rs 12 to Rs 12 80 per maund From the letter half of September the piece commences to rise till it reaches to a level of about Rs 1450 per maund by about the end of November December there is a slight fall but on the whole the prices appear to rule high from December to the end of March

April to August seems to be the period of low prices which range from Rs 10 5 0 to Rs 11 6 0 per maund during this period From September the prices commence to rise and in October reach about Rs 12 5 0 per maind The high prices continue throughout Nover ber From December the prices decline and reach to about Rs 11 12 b per mannd in February They bowever again rise in March which appears to be a month of maximum monthly prices. The prices of Yuetchoon continue at a low level of Rs 1160 to Rs 1250 per mannd from April to the end of August From early September there is a small rise which continues till the end of January when the price reaches to about Rs 16 per maund March appears to be a month of maximum prices which rule at Rs 1960 to Rs 2080 per maund

(3) Bidi Tobacco

(a) Bombay—(s) Charotar area—The following figures shot of annual average prices of two of the best varieties (Lal and Litto) to Both tobacce grown in the Charotar area of Bombar Gujrat, as obtained by the growers during the past 12 years the price figures having been extracted from the account books of several tobacce growers and villace middlemen.

Prices of bidi tobacco in Kaira district

	(Bh sko or	powder)	Lilro (Bh: Lo or powder)			
Year	Price per Md	Percentage tise (+) or fall (-) over previous year	Price per Md	Percentage rice (+) or fall (-) over previous year		
	RSAP		Rs A. P			
1926	14 2 6		13 14 3			
1927	14 3 7	+05	16 15 0	+17 6		
1998	13 4 2	-68	17 3 3	+15		
1929	11 15 5	-98	14 6 1	-16 6		
1930	7 10 11	-26 5	10 7 8	-27 0		
1931	10 5 7	+30 5	10 10 11	+19		
1932	7 11 3	-26 8	9 8 0	-11 7		
1933	8 13 11	+13 2	10 8 2	+ 9 2		
1934	10 11 9	±21 1	11 7 9	+10 8		
1935	711.7	-27 9	10 5 6	- 88		
1936	1080	+35 5	10 I2 E	+ 4 2		
1937	1284	±19 1	12 9 0	+16 3		

It is apparent that five of the 12 years recorded a fall in price, in the case of both the varieties. The prices rose till 1928 thou. I the prices of Lal recorded a fall in 1928 in 1929 there was a sudden drop of 9 8 per cent in Lal and 16 6 per cent. In Lalia and 25 per cent till the next vear but in 1931 there was a sharp recovery of over 35 per cent in Laliand 2 per cent in Lalia and 2 per cent in Lalia and

1933 and 1934 In 1935, there was an appreciable drop, but from 1936 the trend of prees is apparently on the rise The sever economic depression commenced late in 1930, but it appears from the quotations given above that the depression did not have much effect in lowering the prices

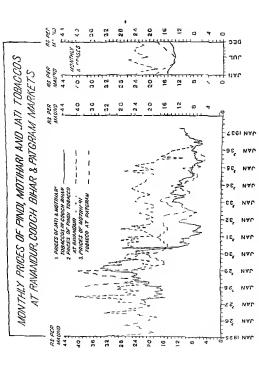
The following figures show the maximum and minimum (trade) prices of average quality bids leaf and powder (average of all varieties) during the last thirteen years --

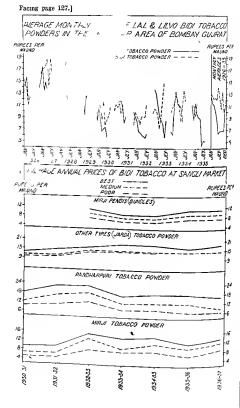
Prices of average quality bidi leaf and pouder at Nadiad market

(Per maund)

Year	Leaf in b	undles	Powder			
	Minimum	Махимищ	Minimum	Maximum.		
	Rs A P	Rs A P	Raar	Rs A.?		
1925	13 11 5	23 8 2	9 12 0	19 9 8		
1926	13 11 5	23 8 2	9 12 9	19 9 8		
1927	13 11 5	23 8 2	9 12 9	19 9 5		
1928	5 14 0	11 12 1	3 14 8	7 13 5		
1929	5 14 0	11 12 1	3 14 8	7 13 5		
1930	7 13 5	13 11 5	5 14 0	9 12 9		
1931	7 13 6	13 11 5	5 14 0	9 12 9		
1932	5 14 0	11 12 1	3 14 8	7 13 5		
1933	7 13 5	13 11 8	7 13 5	11 12 1		
1934	5 14 0	11 12 1	3 14 8	7 13 5		
1935	3 14 8	9 12 9	1 7 6	9 12 9		
1936	5 14 0	11 12 1	- 1	9 12 9		
937	5 14 0	11 12 1	3 14 8 5 14 0	11 12 1		

These price quotations do not specify the variety nor the quality and as such are of very hunted use. They, however support the contention that the present economic depression has had very little effect and that the existing prices are slightly lugher than those prevailing during the two pre-depression years, 1928 and 1929. In facturing the first years of the depression, 1930 and 1931, the prices were higher than those prices is on the rise from 1936.





The following figures show the average annual prices realised by growers for inferior bid; tobaccos -

(Per maund)				
Yesz	Klalan.	Galsa	Khulas	
	REAP	Rar	Raar	
19°6	4 2 6	5 15 1	7 10 11	
19°7	505	7 3 2	7 10 9	
1928	[5 14 10	9 12 10	
1979	3 7 2	5 7 2	6 9 4	
1930	182	4 1 10	4 8 6	
1931	2 1 9	4 1 10	6 6 11	
1932	2 1 9	4 3 6	4 11 3	
1933	2 11 7	3 12 0	5 2 4	
1934	3 0 6		5 11 11	
1935	2 0 11	4 7 0	3 9 0	
1936	2 6 0	4 15 0	3 13 0	
1937	2 12 6	5 14 0	4 9 6	

These prices indicate the same general trend as was observed in the case of Lal and Lalio tobaccos except for the more precipitate decline in the prices of Khakari in 1930

In general, there are six classes of bid tobacco recognised by the trade in the Charotar area viz Lal, Lilvo, Galia Khulan, Khakari and Bandhan. The last term means bundle and Bandhan is always sold in leaf tied into bundle. The remaining classes represent powdered volunear from the verse from the different parts of the tobacco plant as well as from the ration crop Khalan is the cheapest material Galia fetching a little better than Khalan Highest prices are realised for Lal and Lalvo, whereas hetter types of khulan fetch higher prices than the lower qualities of Lal and Lilvo.

The statements in Appendices XLII and XLIII and the diagram facing this page give the average monthly prices of Lal and Lilto both tobaccos during the ten years 1926 to 1935. In the case of Lal tohacco which is by far the most important class of both tobacco accounting for a little more than two-thirds of the total production in this area the peak of monthly prices is generally reached in the month of January by which time the best LIICAR

qualities of tobaco are sold by the growers (see diagram faeing page 127). There is a slight hut progressive decline from Februay which continues till the end of May. June to October is a period low prices. By about the end of October the prices commence to rise till they reach the maximum in January. The Litto tober which forms less than 4 per cent of the total production shows slightly different tendency of monthly variation of prices In the case by prices appear to rule in June and again in December and January. Though the number of transactions between June to oceaher are few and far hetween. The prices commence ising ety in considering the production of the prices declined over by substantial grower.

For Pebruary to May the prices decline by about 3 to 5 per cent.

(11) Nipani area—The prices of bidi tobacco (Haipan ad Jarda) at Nipani during the past 10 years were as below --

	(Per maund)		
Year	Best qual ty	Medium quality	Poor qual tv
	Rs A F	Raar	Rs 4 ?
1927 28	33 6 9	25 11 4	18 0 0
1928 29	34 11 4	26 15 11	19 4 1
1929 30			
1930 31	35 15 11	26 15 11	18 0 0
1931 32	25 11 4	18 0 0	12 13
	23 2 3	18 0 0	12 13 8
1932 33	26 15 11	23 2 3	14 2 5
1933 34	23 2 3		12 13 8
1934 35		18 0 0	
1936 36	23 2 3	18 0 0	12 13 8
	25 11 4	18 0 0	15 6 10
1936 37	28 4 6	20 9 0	15 6 10
	1		

It is apparent that the prices continued to rise till 1929 of During the next year 1930 31 there was a sharp decline of about 16 and 39 per cent. There was a surther fall in 1931 32 to be followed by and 1934 35 again recorded down prices but from 1935 36 the tred appears to be on the rise.

The prices secured in 1936 367 were the prices but from 1935 367 were the prices curred in 1936 37 were the prices curred

The statement in Appendix XLIV and the diagram facing psets 127 show the annual average prices of different classes of bids tobace sold in the Sangh market in the Nipani area. Taking only the best

qualities into consideration the prices were as below during the last seven years

Prices of best quality bids tobacco in the Sangli market
(Per maund)

(2.0, 2						
Year	Mirgs powder	Pandharpuri powder	Other types of powder (Jarda)	Mirji lei f bund es (Pendis)		
	Ro A P	Ro A P	Roar	Rs. A P		
1930 31	9 2 10	17 9 10	19 13 6			
1931 39	9 8 8	22 6 2	14 10 11			
1932 33	15 0 9	22 17 1	15 8 3	11 0 2		
1933 34	13 3 5	16 14 1	18 5 7	a 12 11		
1934 35	13 15 2	la 5 7	18 5 7	8 12 11		
1935-36	11 0 2	18 5 7	18 8 3	11 0 2		
1936 37	12 13 6	16 a 3	18 5 7	11 0 2		

The Fandhap pure tobacco belongs to the Acotiona rustice species and is noted to contain a high percentage of incotine. On account if high strength it fetches a high price among manufacturers of bidis who are to be including with other classes of tobacco for making bidis of different strength. The demand is however limited for this class. The other classes belong to Acotiona Tabacum species. The Jarda tobacco which forms more than two thirds of the total production in the 'uponi area fetches prices which are sometimes higher than those obtained for Pandharpur and its price level is always much higher than that of the best classes of Gujrati bidi tobaccos viz. Lol and Lilio. Even the prices of Mirji tobacco which is one of the cheaper classes available in the Aipana area are higher than those of any of the six trade classes in claced in Gujrati.

The figures given above show that the prices in the Sangh marketentimued to rise from 1930-31 to 1932-33. In 1933-34 there was a sharp fall in the case of Murji (both bundles and powder) and Pandharpiur as against a rise in the case of Jarda. In 1934-35 in prices of Murji powder and Fundharpiur recovered but those of Jardi and Murji bundles remained at the same level as in 1933-34. In 1935-36, the prices of Murji powder and Jarda declined while those of Pandharpiuri bundles remained constant and of Murji rose. In 1936-37, the prices were generally higher than those in the previous year except in the case of Pandharpiuri which recorded a fall.

With regard to the seasonal variation in prices it may be dated that at the commencement of the season in January the prices are better but afterwards there is a gradual downward tread till the end of May Afterwards on account of the advent of early

monsoon there are practically no transactions till about the end of October The season opens again in November and, on the whole it appears, that the prices rule at a slightly higher level in November and December than during the months of April and May It may be, however, noted that the higher level of prices ruling in November and December is almost entirely due to improvement in the smoking quality of tobacco after some months' storage after harvest, as will be explained later in the chapter on ' Storage and stocks', and not due to any increase in demand. The statements in Appendices XLV and XLVI show the daily and weekly maximum and ininimum prices of Jarda bids tobacco as extracted from merchants' hooks at Jayasing pur in the \ipani area The statement of daily prices shows that the daily maximum prices oscillate more than the minimum prices that very sudden rises or fells of prices from day to day are not common and that both the maximum and minimum prices show a tendency of gradual decline from February to the end of April

(b) Baroda—The following are the average prices per maund of Jardo Bhuko (bid) powder) in Baroda during the past nine years—

0	BRUKO	(nigr	powder)	'n	Baroda	during	the	past n	ne	ye	313
	Lear							Price	per	mau	nd
								Rs	. 4	P	
	1928 29							14	14	0	
	923 30							10	0	0	
	1930 31							9	8	0	
	1031 32							8	0	0	
	103,33							8	o	0	
	1933 34							Ω	12	į.	
	1934 35							9	0	0	
	1935 26							9	12	0	
	1936 37							10			

It is evident that the prices declined from 1926 29 to 1932 32 ld 1933 34 there was a rise of 22 per cent. In the next year there was small decline but from that year tiz, 1934 35 the trend appears to be again on the rise.

The following figures show the prices realised for Jardo Judi (bidi leaf in bundles) by three growers from a village in Barods State —

The prices of Jardo Judi realised by growers
(Per mannel)

Ye r	Grower No I	Grower No II	Grower No III
1991 32 1632 33 1933 81 1,034 35 1975 35	Rs A r 12 0 0 11 4 0 10 12 0 12 0 0 13 4 0	Rs & P 10 0 0 10 4 0 9 8 0 12 8 0 11 8 0	Rs 4 7 10 0 0 10 8 0 10 8 0 13 4 0 11 8 0
	1	" "	-

It was reported that all the three growers produced the same arty on the same type of soil and sold their produce practically at the same time and yet the prices realised by them were different from each other. The price realised by individual growers depends not only on the quality (which often varies in this area from field to field) and with the care taken in cultivation and preparation, but also on the personal factors of the individual growers and his ability to secure the full market price.

(c) Gentral Protinces and Berar—The Central Provinces and Berar is the most important province for manufacturing bids and imports large quantities of bids tobacco powder from the Charolar (Guipat) and Nipani areas of the Bombay Presidence. Before it is sold to manufacturiers of bids, the tobacco undergoes considerable processing in the form of preparation of different quality imputing a product of the property of the property of the processing factories where the bids tobacco is seried sorted and blended to form different quality mixtures. Each of these mixtures is given its own number which varies from one wholesale merchant to another. The prices of soit of these qualities which are designated by hymbers at Gondia and important bids manufacturing centre in the Central Provinces were as below—

Prices of bids tobacco mixtures at Gondia.
(Permannd)

Year	No 80	₹0 328	No 151	No 5°3	Akol
1931 1932 1933 1934 1935	Rs & P 26 0 0 29 5 0 27 0 0 23 4 0	Rs A P 30 0 0 37 5 0 33 11 0 36 4 0 31 0 0	Rs A & 18 0 0 12 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Rs A P 26 4 0 24 8 0 21 0 0	Is A. P 44 0 0 35 0 0 3° 0 0 34 4 0

(d) Nizam's Dominions—The annual average prices at Hyder abad of imported Vipan Pandharpuri Muji and Ahol varieties of bidi tobacco mixtures were as shown below.

(Price per maund)

Year	\spans tobacco	Pandkarpu _{rs} tobacco	Mirji tobacco	Akol tobacco.
193° 33 1933-34 1934-35 1935-36	Rs A P 26 0 0 91 0 0 24 8 0 90 0 0	Rs A. 1- 22 0 0 17 0 0 20 0 0 16 0 0	Rs A. P 16 0 0 11 8 0 15 0 0 11 0 0	Rs A. P 12 10 0 7 12 0 11 8 0 7 11 0

The prices of 'span, Pondharpun, Mirj and Akol bid powders fell in 1933 34 and uncreased in 1934 35 and again declined in 1935 26. The rise and fall in the prices per maind appear to have been about the same in all the four cases being higher proportionately over the cheaper type.

The statement in Appendix XLVII shows the monthly prices of locally grown to basecs in Hyderabad Decam. It will be seen that the prices of the locally grown Jarda tobacco declined in 1932 33 as can pared to 1931 32 prices. In 1933 34 there was a further decline but in 1934 35 there was a sharp recovery of over 30 per cent. The fluctuations in the prices of locally grown Desi tobacco showed the same tendencies. There are wide oscillations in the prices from our month to another. In the case of Desi tobacco the prices appear to be high in January and low in April and Vax

The statement in Appendix XLVIII gives weekly prices of different qualities of Jarda tobacco in Hyderabad (Dn.) during 1934 35

(4) Hoolah Tobacco

(a) Bengal —The following figures indicate the average annuprices of Jan and Votikari varieties of hookah tobacco in North Bengal —

Xent	Price per mau	Percentage nee (+) or fall (-) over the preceding year
1927	Rs A 2 18 12 9	
1928	23 8 0	+25 3
19*9	27 9 11	+17 5
1930	14 3 7	-48 7
1931	814	-43 2
1932	998	+19 4
1933	12 8 7	+30 O
1934	982	-24 0
1935	7 7 5	-21 8
1936	8 0 5	+ 75

These prices refer to average quality Jati (Aicotuna Tabacum) and Motihari (Vicoliana ristica) used mainly for hoolah, though the former is partly used for chewing and cheroot making Tue prices thus rose upto 1929 but in 1930 there was a sudden drop and by 1931, the prices were less than one third the prices prevailing in 1929 By 1933, however there was a recovery of 50 per cent over

the 1931 prices but in 1934 and 1935, there was again a sharp fall In 1936, the prices recovered by about 8 per cent

The well known variety Matham is almost entirely used for

The well known variety Mathan is almost entirely used for hookah and on account of its strength is largely in demand all over Bengal Assam Bihar and other areas. The following were the aver age annual prices of Mothan hookah tobacco at Patgram in the Jalnatenn district of North Bengal ...

Prices of Malsham tobacco at Pataram

Year	Price per maund	Percentage rise (+) or fall (-) over previous year
	Rs a p	
1993	31 5 4	1
1999	18 10 8	-40 3
1930	16 5 4	-12 8
1931	16 1 4	- 1 5
1932	13 10 8	-14 8
1933	12 10 8	- 7 3
1934	9 4 0	-29 1
1932	1 6 4 0	-33 4
1936	9 2 0	+000
1937	11 8 0	+26 0

There has thus been a sharp and continuous decline in prices from 1928 to 1933 when the prices were only about a fifth of those prevailing in 1925. In 1936 there was a sudden recovery of 22 per cent and in 1937 the prices further rose by 26 per cent but atuil remained far below the 1928 level.

The following were the prices realised for Motihari tobacco gri will at Burirhat Government Farm near Rangpur during the past 13 years --

	Year	Prices realised for Motihari tobacco
		Rs. a. p.
1924-25		10 0 0
192ə ⁹ 6		14 0 0
1926-27		12 0 0
1927 28		20 0 6
1928 29		Crop failed
1929 30		19 0 0
1930 31		500
1931-32		800
193° 33 1933 34		10 0 0
1934-35		
1935-36		No sales
1936-37		\osales

It will be seen that there is considerable difference between these present those obtaining at Patgram given in the previous table. This is due to differences in quality of the produce sold at the two places but it is impossible to explain the extent of variation in prices due to quality differences in the absence of any specific definition of quality of the produce sold from year to year.

It appears however that the prices realised at Burirhat (Rang pur) were on the whole lower than those prevailing at Patgram at least till the year 1933 In 1930 31, the prices at Burirhat suddenly dropped down to Rs 5 per maund from Rs 12 per maund in 1929 37 At Patgram the sharp decline in prices was noticed earlier, se m 1929 In 1935 36, the prices at Burirhat recovered to Rs 1180 per maund and compared better with Rs 9 2 0 per maund prevailing at Patgram in 1936

The Bishpat (sand leaves) of both the Jati and Motihari is also used for making hookah of mild strength a small quantity being also purchased by eigarette manufacturers for manufacturing cheap eigarettes. The annual average prices of Bishpat leaf at Matha Bhanga in Cooch Behar State during the past 5 years were as below—

Prices of Bishpat leaf at Matha Bhanga

Price per mauno
Ps a p
280
200
1 0 0
3 17 0

The trend of prices of Bishpat is thus on the rise during the bast two years

The statements in Appendices XLIX and L show the average monthly who lessle prices of Mothart at Patgram and July prevailing in the (o oh Behar State The Gooch Behar State Gazette pull lishes fortmelvity prices of tobacco for the several markets within this it mits not the statement in Appendix L shows the prices as averaged from quotations published for eighteen markets. These statements show that the monthly prices commence declining by abit february when the prospects of the new erop are known and during the northern framing page 126). By about August the prices issuality connecer rising till they reach the maximum during the months of December and January.

(b) Bikar—The statement in Appendix LI gives the average annual harvest prices during the past 25 years as officially recorded in the Season and Grop Reports of the province in the thremost important tobacco producing districts Muzaffai pur Darbhanga and Pinner which "gether account for over four fifths of the tobacco." area in Bihar and Orissa. The varieties and qualities for which the prices have been recorded are not specified, but it may be generally stated that the prices in Muzzaffarpur refer to Desi (N Tabacum), those in Darbhanga relate to a muxture of Desi and Vilayati (N rustica) while the Purnea distinct prices refer almost entirely to Vilayati (N rustica) which is mostly used as hookah. The Desi tobacco is used partly for chewing and partly for hookah.

The long period averages of the prices prevailing in the three districts indicate the following position --

Average prices in Muzzaffarpur, Darbhanga and Purnea districts

Period	Muzzaffarpur	Dherbhanga	Purnea	
	Rs a p	Rs a p	Rs a p	
1912 14 1914 15 to 1918 19	18 3 0 19 10 0	8 10 0	8 8 0 6 5 0	
1919 20 to 1923 24	32 12 0	13 7 0	8 13 0	
1924 25 to 1929 30	16 11 0	14 0 0	11 7 0	
1930-31 to 1934-3> 1935-37	13 10 0 15 2 0	9 33 0 1	5 11 0 3 14 0	

It is apparent that in Muzzaffarpur highest prices were obtained during the post war period 1919 to 1923 once when there has been a fall. During the 5 years ending 1934 the average prices were shout 27 per cent lower as compared with the quinquennial average ending 1929. Darbhanga and Purnea recorded highest prices during the pre-depression quinquennium 1924—29. During the five veats ending 1934 the prices in Darbhanga and Purnea fell by about 40 per cent and 50 per cent respectively. In 1935-36 the prices rose in Muzzaffarpur and Darbhanga but recorded a fall in Purnea.

(c) United Provinces—The following Sigures show the annual vertice prices in the Lucknow market of the different varieties of had all obacco grown in the provinces.

Annual average prices at Inchnow
(Permannel)

Year	Kampilla	Dee:	Dess
	(Farrukhabad)	(Biswan)	(Bahrasch)
1930 31 1931 32 1932 33 1933 34 1934 35 1935 35	Rs a p 8 8 8 10 10 10 11 15 4 9 2 11 2 15 6 9 13 2	Rs a p 7 14 5 8 8 8 8 2 0 7 4 0 11 2 0 9 6 3	Rs a p 7 4 0 8 2 0 6 0 0 6 6 6 6 10 0 8 2 0

These figures do not indicate any definite trend The prices of Kampilla ranged from Rs 888 to Rs 11154 per maund, while those of Desi varied between Rs 6 to Rs 11-20 during the period In 1935 36 the level of prices was generally higher than in the

The following were the prices of Vilayats tobacco imported from Bihar at Lucknow -

Prices of imported Vilayati tobacco at Lucknow

(Per maund)			
	Year	Prices	
1930 31		Rap	
1931 32		5 2 0	
1932 33		6 6 6	
1933 34		5 9 0	
1934 35		6 0 0	
1935 36		6 13 3	
m.			

The annual average prices of Farrukhabads tobacco in the important markets were as below —

(Per maund)

Year	Cawnpore	Lucknow	Jhansi
1931 32	Rs a р	Rs a p	Rap
1932 33	10 0 0	9 12 0	11 0 0
933 34	9 8 0	9 12 0	12 0 0 10 0 0
934 35	10 0 0	10 8 0	11 0 0

The prices of hookah tobacco are determined by the amount of pungency and strength present in the tobacco. For this reason the type of tobacco grown in places where well water or the soil has large quantities of available nitrates apparently commands a better price Thus it is reported that the tobacco grown at Kampil (Farrukhabad district) is very pungent and strong and fetches a much higher price

than the same variety (Calcutia) grown in other villages of the same district

Prices of Calcuttia tobacco produced an Kampil and other places in Farrukkabad district

(Per maund)

Year	Kampil	Other places
1932	Rs 9 to Rs 15	Rs 5 to Rs 7
1933	Rs 8 8 to Rs 18 8	Rs 38 to Rs 74
1934	Rs 7 to Rs 15	Rs 38 to Rs 7 14
1935	Re S to Rs. 16 S	Rs 4 to Rs 8 8
		

Another example of price variation due to pungency and strength may be taken from Jaunpin where it is reported that the well water is brackish and ample supply of nitrates is available in the form of lone mitt. (Salt Petre) on account of Jaunpinr being an old city. In 1935 for instance, the prices of Calcutta, tobacco produced in certain fields fetched from Re 24 to Rs 26 per maund Tobacco produced in other fields fetched Rs 15 to Rs 16 per maund while there were fields the produce of which could be sold only at Rs 4 to Rs 6 per maund

The statements in Appendices LII and LIII give the average monthly wholesale prices prevailing at Campore during the past seven years for the Farrukhabadi Kampilla and Dess tobaccos imported from Bachhor Dyer and Saresh in Bihar

(d) Punjab—The annual average harvest prices of hoolah tobacco produced in the Punjab during the past 8 years were as follows—

Year	Price per maund	Index number
1929 30 1930 31 1931 32 1932 33 1932 33 1933 34 1933 35	Ra a p 10 0 0 7 3 0 6 15 0 5 15 0 6 14 0 6 7 0	100 79 69 59 59 69 64

During this period the prices were highest in 1929 30 Subse quently there was a downward trend till in 1932-33, when the prices quency reached the lowest level of Rs 5 15 0 per maund In 1933 34, they remained stationary but in 1934 35 recovered and rose to Rs 6 14 0 per maund In 1935 36, there was again a slight decline and the price remained at the same level in 1936 37

The average barvest prices of the two main varieties, Gobhi (Aucotiana Rustica) and Desi (Nicotiana Tabacum) grown in the chief tobacco producing districts of the province were as below

Per manual)

Year	Attock	Hoshiarpur	Jullundur	Ludhians
	(Gobhs)	(Gobhs)	(Dess)	(Den)
1030 31 1031 32 1032 33 1033 34 1034 25 1035 30	Ra a p 5 0 0 2 15 0 5 11 0 4 8 0 5 0 0 7 0 0 6 0 0	Rs & p 4 2 0 3 13 0 2 11 0 3 4 0 3 0 0 3 0 0 4 4 0	Rs a p 5 11 0 5 5 0 6 0 0 6 0 0 5 0 0 6 8 0 6 8 0 6 4 0	Rs a p 5 11 0 4 0 0 4 0 0 2 14 0 3 10 0

It will be observed that the Gobhi tobacco grown in Attock sells on an average about Rs 140 per maund dearer than that grown in Hoshiarpur This is said to be due to the greater suitability of soil and other conditions in Attock district which turn out tobacco of Letter quality than that produced in Hoshiarpur The same explana tion is given for the higher prices realised for Desi tobacco grown in Jullander than that produced in Ludhiana

The statement in Appendix LIV gives the average monthly wholesale prices at Ferozepur and Lyallpur A consideration of monthly variation in prices indicates that on the whole the price are at their lowest in August and September and low during the subsequent two months October and November This is due to the fact that the arrivals of new tobacco crop in large quantities generally occurs in August September and in fair amounts in the generate occurs in August September and in fair amounts in the subsequent two or three months. High prices rule in April to June and sometimes in Juli, the period being the tail end of the service of the prices at Livallipur have been higher than those prevailing at Ferozepur (except from September 1934 to June 1935) and again from Livalling at Ferozepur (except from September 1934 to June 1935). and again from June 1936 to March 1937) the average difference being about Rs 180 per maund This difference is apparently due to the differences in the qualities of tobacco sold in the two

(5) CHEWING TOBACCO

(a) Bengal—The best middle leaves of Jat; and Motihari, with orchange brown colour, thick texture and pungent tasts are used for chewing These leaves are locally known as Panapato a Bhog or Mul.i.hop. The prices of Panapat leaves at Matha Bhanga market during the past 5 years were as below—

Price of Panapat

me ene hase	o 3 caro a as sero	Price of Panpe
Year		per maund
		Rs
1933	•	20
1934		17
1935		10
1936		17
1937		24

The prices thus declined till 1935, but in 1936 there was sudden jump of 70 per cent. In 1937, there was a further rise of about 41 per cent. and the prices realised were the highest since 1933

(b) Bihar—The Dess tobacco grown in North Bihar is very largely used for chewing, particularly the middle leaves (Minhan), bottom leaves (Chhabua) and leaves of rationed crop which are called Danji. The statement in Appendix LV shows the average monthly wholesale prices of these three classes of leaves at Barh in North Bihar During the months of October and March the prices during the past 5 years were as below—

(Per maund)

		Musl	an	- 1	Chh	abu	a	D_0	nj:	
		Rs	a	P	Rs	a	p	Rs	8	P
í	1931	15	0	0	5	12	0	2	4	0
1	1932	11	0	0	3	8	0	0	14	0
October	1933	7	0	0	2	4	0	0	8	0
1	1934	10	0	0	4	4	0	2	0	0
	1935	13	0	0	4	8	0	D	14	0
Percentage	fall October 1931 to 1935	1:	3%		22	%		61	1%	
	1932	u	0	0	5	0	0	1	6	0
	1933	9	8	0	2	12	0	0	11	0
March -	1934	5	12	0	2	4	0	0	10	6
	1935	11	0	0	3	12	0	1	2	0
	1936	7	0	0	3	12	0	0	12	0
Percentag	e fall, March 1932 to 1936	3	6%		2	5%		4	5%	

It is evident that the prices do not indicate any definite tread, but in 1935 36 they were considerably lower than in 1931 32. It is significant to note that prices in March when fresh erop arrives in the market in large quantities are lower than those prevailing in October, the average difference during the period of five years being 21 per cent for Wurhan, 13 per cent for Chhabian and 30 per cent in the case of Danji

(c) Madras—The following were the average prices of Meenampalayam chewing tohacco at Satyamangalam in Combatore district during the past five years --

Prices of Meenampalayam tobacco
(Per manud)

	First Quality	Second Quality	
	Rs a p	Resp	
uly 1933	41 3 0	21 6 0	
,, 1934	42 10 0	23 0 0	
., 1935	50 15 0		
,, 1936	1	26 5 0	
., 1937	42 10 0	21 6 0	
	45 10 0	24 10 0	

The description of the first and second qualities is neither defined nor specific and as such the first or second qualities of one year or month are usually not the same as the first or second qualities of another jear or month first thing into consideration the general trend it is obvious that the prices rose from 1933 to 1935 by about 23 per cent in the case of both the qualities. In 1936 there was a sudden drop but in 1937 there was arma a reconserve.

The statement in Appendix LVI shows the monthly wholesale prices of Menampalayam and Udumalpet chewing tobacc in Palghat market during the past seven years. These monthly prices indicate that heanth to month variation is small and that the prices are usually instead during the month of April when the fresh crop arrivers in the market in large quantities. The usual harvesting period is during February the crop coming in the during this period and its for this reason that the prices slowly drop down as the season advances till they reach their lowest level some time in the month of February.

(d) United Provinces—The Dest tohacco grown round Biswan in Sitapur district is considered particularly suitable for chewing. though it is also used to some extent for hookah. The average annual wholesale prices of Den tobacco at Biswan were as follows:—

Price per maund

Year	Minimum	Maximum.	
	Rs a p.	Rs a p.	
1929	7 6 6	19 0 0	
1930	4 14 6	18 8 0	
1931	5 14 9	17 0 0	
1932	5 14 9	11 13 6	
1933	5 14 9	11 13 6	
1934	470	14 13 0	
1935	180	14 13 0	

The minimum price was extremely low in 1935 because a large part of the crop was spoil in that year by hail and frost The maximum prices declined from 1931 till they reached a stationary point in 1932 and 1933. In 1934 there was a rerovery of 25 per cent and the prices remained at the same level in 1935.

The prices of chewing tobacco of different qualities imported from Bihar at Lucknow market are given below. The leaf is of the Desi variety grown in North Bihar and called Poorbs in the markets of the United Provinces—

Annual average prices of chewing tobacco imported from Bihar at

(Per maund)

Year	Hurhan (Middle leaves)	(Bottom leaves)	Duji (Donji) (Ratoon erop)
	Rs a p	Ra a p	Rasp
1930-31	10 6 6	3 15 3	2 8 0
1931 32	10 0 0	4 9 3	1 10 3
193° 33	11 4 0	3 12 0	3 8 9
1933-34	8 5 4	3 2 0	3 4 6
1934-35	12 8 0	5 6 9	4 2 8
1930-35	13 2 0	500	3 4 6
1936-37	9 2 9	289	3 2 0

The sudden drop in 1933-31 is apparent. In 1934-35, the prices of Murhan recovered by 50 per cent. while those of Chhabua and Dup also increased substantially. There was a further rise in 1935-35 in the case of Murhan but in 1936-37, the prices of all the three qualities declined considerably.

(e) Mysore—The annual average wholesale prices of chewing to bacco at Sira an important centre for chewing to bacco in Mysore State were as follows—

Year	Price per maund.	Percentage change.
~	P.s. s p	
1933	9 11 0	
1934	11 8 0	+19%
1935	10 3 0	-11°,
1936	9 6 0	5°0

There has thus been a slight decline in prices from 1933 34 to 1935 36

(6) SYUFF TOBACCO

(a) Madras—The prices of best quality Mustadabad (Kistna district) snuff tobacco at Madris during the past three years were as below—

Year		Price per mau				md	
		 			Rs	٨	P
1934-35					34	0	0
1930 36					37	8	0
1936-37					34	0	0

The statement in Appendix LVII gives the ave at monthly prices of snuft tobacco at Mangalore during the 5 years 1932 33 to 1936 37 the figures indicate continuous decline in price and in 1936 37 they were only about two thirds of those ruling in 1932 33 It is also evident from the statement that month to month variation in prices is small being less than a rupee per muund

(b) North West Frontier Province—In the Peshawar market of the N W F P which is noted for the production of sauff tobacco the prices of the famous Normar sunff tobacco are Rs 7 per maund for the first quality Rs 6 for the second quality and Rs 5 per maund for the third quality. The prices have remained more or less the same during the past three years.

(c) Uysore—In Wrsore the following were the average annual wholesale prices of spuff tobacco at Eavendur.—

1 ear	Price per maufid	Percentage change
	Rs a P	!
1931	21 12 0	Į.
1932	.20 6 0	- v.º
1933	o c1 ***	±11°°
1934	21 4 0	- 7°°
1935	16 11 0	-°10°
1936	8 11 0	-48°

It is seen from these figures that the prices bare declined to a considerable extent during the three vears 1934 to 1936. In fact there has been a continuous fall during the five year period except in 1933 when there was a clight rise. Enquiries have shown that this fall in prices is very largely due to decline in demand for shuff.

The statement in Appendix LVIII and the diagram facing page 126 show the average monthly prices of Pindi tobacco at Ravandur in Misore State 1 and tobacco is very largely used in the preparation of smuff and to some extent in manufacturing high class bulks. These lightes indicate that the prices generally tend to be on a higher level during the first half of the year 1e, January to June, than in the second half. It is significant to note that fresh crop is available in the market also in the first half of the year. The statement further shows that the prices of smuff tobacco have been more or less continually on the decline during the last ten years, except during 1927–1930 and 1933.

C -Farm prices of green uncured leaf

Although the system of selling standing clop is followed to a certain extent in certain areas as will be explained later in the Chapter on Assembling the practice of selling green leaf is almost entirely confined to eigarette tohacco leaf grown in the Guntur and Mysore areas In the Guntur district the system of selling green leaf is followed only in the case of Virginia tobacco and adopted by extremely few smal growers who are in need of cash at the time of harvest. The prices of green leaf in the Guntur area in 1934 35 and 1935 36 ranged from Rs 15 to Rs 20 per candy of 500 lb Green leaf is sometimes sold on an acre basis the system being more commonly practised when the prices are high In 1934 35 the prices of such sales ranged from Rs 60 to Rs 140 per acre depending on the condition of the crop and the quality of the green leaf produced In 1937 38 the prices of green leaf were high and averaged about Rs 100 to Rs 200 per acre m the Guntur area. The proportion of the crop sold in green condition is however extremely small specially when the prices of cured leaf show a rising tendency. It is estimated that not more than I per cent of the total Virginia crop in the Guntur area is sold in green condition. In the Mysore area the Mysore Tobacco Company Limited organised in 1937 for the develop ment of production and trade in Virginia cigarette tobacco operates enurely by purchasing green leaf from the growers In 1937 the count any paid to the growers an average price ranging from 4 to 5 ples per pound of green leaf Before 1937 the Mysore Government used to purchase green leaf from the growers and the average prices paid for such purchases were 53 pies and 45 pies per pound in 1935 and 1936 respectively

Sometimes in the Mysore area chewing tobacco is also sold in a green state

The prices of such sales ranged

The prices of such sales ranged from Rs 10 to is 20 per 1 000 green plants during 1934-36 practice of selling green leaf of indigenous varieties of tobacco appears to be more common in the southern tobacco areas of the State practically in the Hudson Penyapatna and Krishnarajanagar talukas and is reported to be spreading in the northern tobacco area also namely n Tumbur Chitaldnrg and Kolar districts during the past three years

D-Price differences between old and new stocks

The price of any lot of tobacco new or old is the resultant of the interaction of several factors which are not measurable under the existing conditions of tobacco trade in India As such it is difficult to assess definitely the price variation between old and new stocks of tobacco As will be explained later in the chapter on "Storage and Stocks", it is generally acknowledged that tobacco mitended for indigenous types of consumption, like bid, hookah, chewing, snuff, etc, improves in quality after about six months' storage Similarly, tobacco mitended for cigars and cheroots improves in simbling quality after about twelve months' storage, while that used in the manufacture of cigarettes is considered to be best for manufacture after keping it in store for about two years

It may be generally stated that in the case of bids, hookah, chewing and snuff tobaccos which are well stored for about six to twelve months after harvest, a premium ranging from 10 to 20 per cent is obtained. The new eron is available on the market during the three or four months before the commencement of the monsoon in June and the general practice is to store tobacco at least over the rainy season before using it in the manufacture of tobacco products Extremely few growers store their tobacco for ageing in expectation of better prices, but in the case of those few who have good accommodation and store the whole or part of their crop for some months it is noticed that the prices improve after about 6 months' storage In 1935 a grower from \impacts improve the Central Provinces sold part of his tobacco at Rs 21 60 per maund unmediately after harvest while the remaining portion was sold by him at Rs 25 10 0 per maund after 6 months' storage In the United Provinces the price difference between fresh leaf and leaf which is old by 6 months or more is anything between o to 20 per cent. In Bengal and Assam, the Jati and Motikari tobaccos fetch a premium of Rs 2 to Rs 280 per maund after they are 6 months old In the Gujerat, Nipan; and Huderabad areas, the bids tobacco stored by the growers for 6 months or more fetches a premium of Re 1 to Rs 2 per maund It may be, however noted that these high prices realised after storage for some months are almost entirely due to improvement in the smoking qualities of the stored product and not to any improvement in demand

Vo premium is paid for stored tobacco unless the stocks are well preserved and has e a good strong aroma. If the tobacco is more than a year old the quality deteriorates and it can then be sold with some difficulty at lower prices. In the case of inferior qualities had the Brishpat of Bengal and kookah tobacco dust, there is hardly any difference between the prices of old and new stocks. In fact it is observed that in all types of tobacco superior qualities keep hetter and for a longer period during storage than inferior qualities. The best Mesampaluam chewing tobacco for instance, could be kept without deterioration for about 18 months as against only about 6 months, an the case of inferior quality even under proper conditions of storage. Storing of cigarette tobacco for ageing is done under controlled conditions by the manufacturers themselves and as such old stocks of cigarette tobacco stored are rarely available on the open market in India.

In the case of Burmese eight and cheroot tobacco, one year old stocks normally fetch a premium of about Rs 2-40 to Rs 3-60 per maind for the first quality and about Rs 1-20 per maind for the second quality

E -Price range for the same quality .

In the absence of definite grades and standards prices vary from one merchant to another on the same day and for the same type and quality of tobacco. The prices secored by the growers in any area are not therefore uniform though they sell the same type and quality in the same market and on the same day. Enquiries made at the several markets indicate that the price secured by any particular grower on any particular day depends on the quality of his produce his credit position in relation to the village merchant or indidenant the quantity of tobacco he can offer for sale the general economic standing of the buyer and the extent of help the general economic standing of the buyer and the extent of help the general economic standing of the buyer and the extent of help the generally prefer to sell even at a slightly lower price to a buyer who has not a reputation for prompt payment and for causing the least number of disputes regarding quality at the time of delivery of produce Bargaining strength capacity to hold over produce and the extent of competition enong the buyers at any given time and place also result in variation in the prices secured for the same quality produce in the same market and at the same time.

Absence of comparable standards makes it extremely difficult to ascertam definitely the price range of tobacco of the same type and quality. Enquires in Bengal and Assam showed that the price range in a number market for Mothers tobacco of a given that the price range in a number market for Mothers tobacco of a given that the price range in a number range observed as Rs. 5 per manud. In the case of Jats tobacco price and the central Provinces the imported but tobacco price range observed as Rs. 5 per manud. In the Central Provinces the imported but tobacco price range observed as Rs. 10 per manud on a single day the exact difference depending upon the kind of sale transacted but to the control of the price of the Charton of the Ch

F -- Comparison of prices of different types

It would be of interest to compare the average prices of different types of raw tobacco as obtained by the growers in the principal producine areas. Such comparative price data are not easily obtain able but the following figures evenered through the course of marketing enquires indicate in a rough manner the variations in the prices of different types in 1935 36.

Comparative growers' prices of different types in 1935-36

Comparative growers' prices of different types in 13	935-0	30	
India—	Per		
		S A	
Cigarette-Virginia five cured (Guntur)	25	0	0
Cigarette-\irginia flue cured (Bangalore)	25	10	0
Cigarette-Aatu (country) sun cured (Guntur)	7	0	0
Cigar—(Dindigul)	13	13	0
Cigar—fillers (Trichinopoly)	10	4	0
Cheroot—Bhengi (Rangpur)	8	13	0
Cheroot-Jate (Rangpur)	10	0	0
Bidi-Lal (Charotar)	10	8	0
Bidi-Liloo (Charotar)	10	12	6
Bidi-Jarda Bhulo (Baroda)	9	12	0
Bidi-Hatpan and Jarda (Nipani)	19	11	0
Bidi-Jarda (Cangli)	16	8	3
Hookah-Jan and Mouham (North Bengal)	8	0	0
Bookah-Mot hars ((Patgram-Bengal)	9	2	0
Hoolah-Dest (Muzaffarpur)	13	11	0
Hoolah-Dess (Darbhanga)	9	11	0
Hoolah-Vilayati (Purnea)	3	0	0
Hoolah—Kampilla (Luchnow)	9	13	0
Hoolah-Dest E suan (Lucknow)	9	6	0
Hookah-Dest Bahraich (Lucknon)	8	2	0
Hoolah-Gobhi (Attock)	7	0	0
Hookah—Dess (Juliundur)	5	8	0
Chewing—Panajat or best middle leaves of Jati and Motihari (Matha Bhanga)	17	0	0
Cheurng-Mee ampalayam (Satyamangalam-Combatore)-			
1st quality	42		0
2nd quality	21	6	0
Chewing-(Sira Mysore)	9	6	0
Burma—			
Cheroot—Shwegym (Rangoon)		15	0
Cheroot—Hee ggs 1 we Yaung (Mymgyan)	10	14	0
It is thus aby one that the bighest pures are realised	for	501	ne

It is thus obvious 'I it the highest pieces are realised for some of the special chewing tobaccos sold in South India Apart from the imported eigenter and eigen leaf from Curoje and America the Infine chemical today of the india control to the Infine chemical today of the india control to the Infine chemical today of the india control to the Infine chemical today of the Infine chemical toda

the purces of these two kinds of bids tobacco are over 70 per can delete the theorem the prices of Guyerat bids tobaccos. The eigra and cheroot tobaccos from the Madras Presidency fetch lugher prices than those produced in Bengal Among the hookah tobaccos the bigs that the produced in Bengal Among the hookah tobacco the bigs that price though it may be noted that this type of leaf has also a demand for chewing purposes. The Vileyats tobacco grown in the Purnea district of North Bihar appears to he selling at the lowest price among all types of tobacco. The prices of the hookah tobacco produced in the Punjah are also the lowest among all the types except that of Purnea alterady referred to

G -Fixation of buying rates

In giving his offer the huyer takes into consideration the quality of the produce offered for sale the amount of production of the type of tobacco required by him and also the probable demand taking into account the competition from substitutes and the price or similar types in other localities as well as the stocks of tobacco held in the clief assembling and distributing centres. The reputation of a particular village or specific holding for producing leaf of hetter quality also receives consideration in making an offer

Before making an offer for a particular lot of tobacco the buyer examines the quality by looking at the colour size and substance maturity and dryness of leaf feeling its texture with his fingers He then tests its strength in the case of indigenous types tobacco hy breaking the leaf powdering it between the palms of his hand for smelling the aroma and then by actually smoking or chewing the tobacco The sample for testing is usually drawn from the middle or bottom of the heap and examined first for admixture of sand stalks stems perished diseased and insect attacked leaf. By rubbing the leaf between the palms sand is loosened and separated after which further tests regarding strength mentioned above are carried After these tests are over the purchaser makes an offer which if immediately accepted the hargain is settled. If not considerable haggling goes on till the huyer and seller arrive at an agreement Commission agents often acting on hehalf of the huvers usually help the buyers in examining the quality of a lot offered for sale and in fixing the price Whenever the huyer cannot personally inspect the quality of the lot offered for sale he may either entirely depend on his agent or representative or may get samples and quota tions from a number of commission agents to serve him as a guide in maling an offer of price But the extent of sale hy sample is extremely small and the judging of the quality of a consignment by actual examination either of the sample drawn from hull or of the whole consignment is almost the universal practice followed in the tobacco trade In the Guntur district of Madras Presidency the Indian Leaf Tobacco Development Co Ltd enters into contract with growers of cigarette tohacco to bny leaf of different grades at prices specified in the contract. The growers are given instructions in grading but at the time of delivery the company's officials inspect each bale brought in by the growers before fixing the final price

It is therefore obvious that the present declared values of exports of unmanufactured tobacco are about 5 times the pre war average values Similarly, the value per lb of exported cigars is over per cent higher than that prevailing during the pre war period

In view of the increasing importance of exports of unmain factured tobacco it would be interesting to discuss further the export values of unmanufactured tobacco exported from the ports of different provinces and to the important countries that consume Indian tobaccos. The following figures show the annual average values of unmanufactured tobacco exported from the ports of different Indian Provinces and Burna.

Average annual declared values of exports of unmanufactured tobacco

		(Per fb)					
	Exported from the ports of						
Year	Bengal.	Lombay	Madres	Burma			
	PS A P	PS A P	PSAF	Ps a P			
1925 26	0 2 4	079	0 5 8	0 3 6			
19°C 27	0 2 10	0 7 10	0 5 10	0 3 10			
10°7 28	0 4 5	080	0 8 5	0 4 1			
1938 29	0 5 3	066	0 6 4	0 4 6			
1070 30	9 5 2	0 7 0	0 6 2	0 5 3			
1939 31	0 2 2	0 7 9	0 5 11	9 4 9			
1031 32	030	0 5 11	0 5 0	0 2 7			
1937 23	0 3 9	0 0 10	0 6 1	0 3 10			
1933 34	0 2 8	0 5 10	0 5 0	0 2 10			
1934 7,	0 1 9	0 5 10	0 5 0	0 2 2			
1935 36	018	0 4 10	0 . 1	0 2 11			
1926 37	0 4 2	0 3 11	0 5 4 1	0 4 10			

for Madras Re 0 t 3 for Bombay and Re 0 3 1 for Burma It is thus obvious that during the ten years ending 1934 35 the value per lb of exports from Bombay was the highest. As noted earlier in the supply chapter the exports from Bombay consist almost entirely of lide and smoke g tobaccos while those from Madras are largely of cigarette pipe and eigar tobaccos Exports from Bengal are largely of cheroot tobacco and Bishpat (sand leaves) used for cheap cinarettes and cigars Exports from Burma are of cheroot tobaccos In 1930 31 the first year of the trade depression there was sharp fall in the average value of exports except in the case of exports from Bombay The decline was more precipitate in Bengal and Burma In 1931 32 there was an improvement in Bengal but decline in values in all the other three areas. From this year aver age values of exports from Bombay appear to be on a continuous decline and in 1936 37 were the lowest among all the Indian pro vinces and Burma The average values of exports from Madras have been more constant and ranged from a to 6 annas per lb during the past 12 years. In 1936 37 there was a decided improvement in the values in Bengal Madras and Burma but a sharp fall in

The following figures show the average values of exports to principal countries --

Average annual declared values of exports of unmanufactured

(Per lb)

Year	Exported to			
	United King	Aden and De pendences	Japan	\\etherhads
	Rs a P	Rs a P	Rs a P	Rs a r
1975 26 19 6 27 197 98 19 99 19 99 19 930 1930 31 1931 32 1937 33 1933 34 1934 35	0 5 8 0 6 0 0 0 3 0 6 5 0 6 3 0 6 1 0 5 11 0 6 5 0 5 9	0 7 9 0 7 10 0 8 0 0 6 6 0 9 0 5 0 9 0 9 0 9 0 9 0 9 0 9 0 9 0 9	0 4 1 0 7 0 0 5 10 0 6 6 0 6 4 0 4 10 0 4 16 0 4 20	0 3 3 0 2 10 1 0 9 0 3 0 0 3 0 0 1 0 9 0 3 10 0 1 10 0 9 3
1935 26 1936 37	0 5 11 0 6 9 0 6 1	0 3 10 0 4 0 0 3 11	0 3 1	0 3 3

The average value per lb of exports to Adeu were the highed in 1927 28 followed by Japan the United Kingdom and Netherlands It is interesting to note that the average values of exports from Bombay to Aden exactly tally with each other except during 1930 32 in 1931 32 and 1932 33 where small differences are observed. This is because almost all the exports from Bombay go to Aden ind Dependences which take Indian tobacco almost entirely from

Bombar as already noted earlier in the supply chapter. The aver age values per lb during the 5 years 1925-26 to 1929-30 were Re 0.5.11 in case of exports both to the United Kingdom and Japan Re 0.7.7 for exports to Aden and Dependencies and Re 0.3.1 for exports to Netherlands During the quinquennium ending 1934-35 the position of average values per lb was Re 0.6.0 for the United Kingdom Re 0.4.8 for Japan Re 0.6.1 for Aden and Dependencies and Re 0.2.4 for Netherlands. The trend of average values of exports to the United Aingdom appears to be on the rise the peak periods having been reached in 1928-29 and 1932-33. In 1933-34 there was 7 decline but from 1934-35 there has been an improvement except for a small full in 1936-37. The export values to Japan show a definite downward trend particularly from 1929-30. From 1934-35 the unit values have been slightly more than 1 all those prevailing during the predepression period. Trade with Aden and Dej endencies. also indicates a downward trend in values from 1930-31. In 1. in 1936-37 the export value was only about half the average export value per lb prevailing during the quinquennium ending. 112.30. The alues of exports to Netherlands have been irree lar thouch from 1934-35 the trend appears to be on the

(2) IMPORT VALUES

Unmanufacture I tobacco and cigarettes account for about 97 per cent of the total 111 ot. The following figures show the annul average deciared values of unmanufactured tobacco and cigarettes imported into India and Burma by sea from foreign countries.

heraje annual declared values of imports of unmanufactured

tobacco and cig	arettes	ı	
Period	(Per lb)		
14100	Unmanufactured Cigaret tobacco	tes	
Pre war average	Reap Rea	ľ	
1925 26	097 30	9	
1926 2"	011 0 410	5	
1927 28	0 11 7 4 10	7	
1928 29	0 12 10 4 4	7	
1929 30	0 13 7 0 4 1	11	
	0 13 11 4 0	6	
192o 26 to 1929 30 average	0 12 7 4 4 1	01	
1930 31		0	
1931 32	1 0 9 3 10 1	'n	
1932 33		7	
1933 34		5	
1934 35	121 33		
1930 31 to 1931 35 average	1 2 0 0		
1935 36	1 1 11	9	
1936 27		1	
1900 91	1 5 10 3 "	0	

As noted earlier over 90 per cent of the unmanufactured tobacco imported is of the Virginian eigarette type obtained from the United States of America and the United Kingdom It is clear that the trend of the value per lb of the imported leaf is on the rise. The pre war average value was Re 097 per lb which rose to Re 0127 per lb during the pre depression period, an increase of over 31 per cent During the depression period of 5 years ending 1934 35, the average value rose still higher to Rs 1111 a rise of over 42 per cent over the previous quinquennium. During 1935 36 the value per lb of imported leaf rose still further and is helieved to be the highest on record during recent years This rise in values may be explained by taking into consideration two factors 117 the prices of flue cured Virginia leaf in the United States and changes from year to vear in the quality of imported tobacco leaf. The average annual farm prices of flue cured leaf in the United States from 1920 to 1937 were as below -

Farm prices of flue-cured trues in the I micd States of America

arm prices of flue-cured tyl	es in the United States of America
Year	Cents per lb
192 ₀	200
1926	74 9
1927	20 5
1925	173
1929	180
1930	120
1931	84
1932	11 6
1933	193
1934	27 3
193 ₀	200
1936	22 1
1937	23 1

The range of prices between 1925 to 1929 was thus higher than that prevailing during the next five years 1930 to 1934 which is exactly reverse to the difference, observed in the export values prevailing during the two quinqueniums. There is no information available to inclease the year to rear variations in the quality of imported leaf, but it is apparent that the increase in the unit value of imports during the past 12 years is almost entirely due to the increase in the imports of superior quality. American leaf and decline in the imports of inferior qualities. This is also supported by the fact that during recent years larger quantities of Indian grown eigheste leaf which is still considered to be inferior in quality as compared to the best imported American leaf, are being used in the manufacture of medium and low grade eigheracties.

semination of market information takes place through different channels, namely -

(1) GOVERNMENT PUBLICATIONS

The method of collecting price data adopted by the provincial Governments has been described in the Report on the Marketing of Wheat in India (page 109) So fur as tobacco is concerned, the Indian Trade Journal published every Thursday by the Depart ment of Commercial Intelligence and Statistics of the Government of India, gives monthly prices of unmanufactured tobacco at Calcutta, Guntur Patna Bangalore and Hyderabad (Deccan) Figures of weekly arrivals and despatches of certain staple com modifies including unmanufactured tobacco at 35 centres are also given in the journal along with figures for the corresponding week of the previous year From August 1936 a new series on barvest prices of the principal crops is being published in the Indian Trade Journal, the price quotations being collected 'mainly through non official agencies (principally branches of the Imperial Banl In all 16 commodities and 93 centres have been chosen for which weekly prices during the harvest period will be collected " This series is supposed to represent prices of the principal crops during their harvesting periods at the more important market centres for each erop ' the object being to obtain a better indication of the prices which the cultivator actually receives "" For tobacco the centres selected are Muzaffarpur and Purnea in Bihar Belgaum and Nadiad in Bombay Guntur, Tirupur and Vizagapatam in Madras and Farukbabad in the United Provinces Figures of inter provincial tiade movements are published monthly by the same authority in the "Accounts relating to the Inland (Rail and River borne) Trade of India and the "Accounts relating to the Coasting Trade and \avigation of British India" Similar monthly publications are issued giving the foreign trade of British India (by sea and land frontiers) and of the maritime States in Katbiawar and the State of Travancore Figures of area and barvest prices (in only four provinces tis, Bengal Bihar and Orissa Bombay with Sind and Pinniab) of tobacco are published in the "Agricultural Statistics of India" while estimates of area and yield of tobacco are given in the " Estimates of Area and Yield of Principal Crops in India" both the publica tions being annual

The provincial Governments also co ect prices of unmanificatived tobacco and some of them make arrangements to publish the price series either in the local Government Gazette and/or the annual Season and Crop Report Thus in Medras, monthly whole sale prices of Virginia and country etgarette tobacco at Guntur are being published since October 1935 in the local Government Gazette based on information on weekly prices collected by the Director of Industries In Bengal, Bihar and Orissa, Bombay and Sind figures of average monthly wholesale prices and harvest prices are collected

^{*}See Indian Trade Journal, August 6th, 1936 page 657

and published in the local season and erop reports. In the Punyab fortinghity wholesale prices for important districts towns like Attock, Hosharpur Jullundur, Lindhana, etc., are published in the local Government Gazette as well as the harvest prices in the Season and erop reports. In the Delha province, wholesale prices of unmanu factured tobacco are published fortinghity in the Government of India Gazette.

In Burma, fortnightly prices at four assembling centres, viz, Pakokku Henzada Toun,too and Thavetmyo are published in the Burma '1,020th' by the Commissioner of Settlements and Land Records

The Indian Trade Journal publishes monthly wholesale prices at Calcutta Guntur Patna Bangalore and Hyderabad (Deccan) For Calcutta the prices are quoted for Poola Common, which is a term applied to Jati to bacco grown in North Bengal Jati has several varieties and qualities and the price quotations do not specify variety and quality The average annual merchant's buying prices of Jair tohacco at Rangpur as collected during the course of marketing enquiries in 1936 and 1937 were Rs 10 per mand and Rs 10-8-0 per maund respectively (see page 121) The monthly prices of Ports Common at Calcutta as published in the Indian Trade Journal m 1936 and 1937 ranged from Rs 6.20 to Rs 9 per maund and Rs 6.80 to Rs 10 per maund respectively. Thus the prices at the producing centre appear to have been higher than those ruling in the distributing centre which easts doubt on the accuracy of the figure. The published prices for Guntur are stated to refer to qualities of unmanufactured tobacco strip. Guntur grows two distinct types viz, Virginia and Vatu (country) The published prices show that the prices of strips of all qualities ranged from Rs 32 to Rs 133 per manud in 1936 and Rs 25 to Rs 158 per maund in 1937. The harvest prices of raw Virginia flue-cured tobacco at Guntur as collected during the course of marketing enquiries were about Rs 150 per candy (i.e., about Rs 25 per maund) in 1936 and Rs 187 per candy (te, about Rs 31 per maund) in 1937 Similarly the prizes of raw Vatu (country) sin-curred tobacco were Rs 43 per cands (or Rs 7 per manud) in 1936 and redrying the prize of fost he warmed to the prize of both the varieties of eigenvite tobacco increase. by at least one third the pri as ruling at harvest time. It is thus obvious that the prices published in the Indian Trade Journal do not hear any relation to the prevailing types grown in the Guntur

area. No indication is given about the type and quality for the price quotations published for Patna, Bangalore and Hyderabad (Decean). So far as price quotations for Hyderabad are concerned, it is noticed that the same quotation is given from mouth to month coulinnously for several mouths. Thus the price stood at the same figure, viz., Rs. 13 6 0 per maund from March 1933 to January 1934, Rs. 133 0 per maund from February 1934 to October 1934 and again from January 1935 to April 1936 and Rs. 11 11 0 per maund from May 1936 to September 1937. The harvest prices of Virginia tobacco at Guntur in 1935 36 were published at a redictiously, low figure of Rs. 32-8 0 per candy as against Rs. 40 per candy published for the local (country) tobacco. Such price quotations obviously do not serve any useful commercial purpose

Similar is the case with published provincial figures of prices Thus in the Agricultural Statistics of India Volume I the harvest prices of tobacco as published for Kaira District of the Bombay Presidency are gi en at Rs 26 11 0 per maund from 1929 30 to Rs 13 5 0 per mand and Rs 11 7 0 per mand respectively The Charotar area where the Gujerati bidi tobacco is grown lies in Kaira District where tobacco is almost entirely cultivated in the tract known as Charotar The price figures extracted from the account booms of several growers and village middlemen during the course of marketing enquiries indicate that the per maind prices as received by farmers for Lal bids tobacco which is by far the most important in that area were Rs 115-5 in 1929, Rs 71011 in 1930, Rs 1057 in 1931, Rs 7 11 3 m 1932 Rs S 13 11 in 1933 Rs 10 11 10 in 1934 and Rs 7117 in 1935 The published prices have thus no relation to the actual prices realised by the tobacco growers. Another example of the price quotations published for the Della province may be given to illustrate the extent of maccuracy of the price data published in Government publications

In the Delhi province the Department of Industries collects and publishes in the Government of Indus Gazette fortinghtly proceed to bacco. The published price series indicate that the wholesale price of 'to bacco leaf' (dry)'' arred from Rs 10 to Rs 18 per maind in 1933 Rs 15 to Rs 17 in 1934 and Rs 14 to Rs 20 in 1935. The prices refer to "tobacco leaf' (dry)'', a term which has no meaning in the tride. The variety and quality are not specified and the official records do not give any information on these points. The leaf tobacco trade in Delhi consists of the hooka't types (Den, Calcuttia and Kampilla), and the chewing types (Poorb, and Soorti). It seems apparent that the prices do not refer either to Calcuttia or Dess since both these varieties were being sold in 1935. There remain, therefore, only three types, i.i., Kampilla, is a hookah type shale the remaining two are important chewing tobaccos. Extensive enquires made of leading merchants in Delhi city indicate that the prices for Kampilla (including the lowest and laghest qualities) during 1933, 193 and 1935 ranged from Re 10

to Rs 11, Rs 10 to Rs 12 and Rs 8 to Rs 14 respectively The series of prices therefore do not refer to Kampilla

The following price quotations of several actual transactions noted from the books of merchants are given for comparison —

Poorth (Ist class)—

Per maund	
Rs A P	
13 4 0	
13 8 0	
14 0 0	
14 4 0	
13 6 0	
12 8 0	
14 4 0	
8 4 0	
10 8 0	
12 12 0	
14 0 0	
15 0 0	
11 0 0	
14 8 0	

The first class Poorbi leaf was selling at Rs 14 per maund from June to September 1934 while the Sooth of high quality fetched from Rs 108 0 to Rs 14 per maund during the same period The price according to published figures was Rs 17 per maund during this period In April 1935 first class Poorbi fetched Rs 1860 per maund while the published price for "tobacco leaf (dry)" vas Rs 20 per maund Its therefore apparent that the published price data do not refer even to the highest quality Poorbi and Soots

16 4 0

September

It seems apparent therefore that the wholesale prices of unmanu factured tobacco as published in Government publications have no identifiable relation with the prices of any particular type and quality found in any nurket and to that extent they are of no commercial use to the primary producers and traders.

(2) NON OFFICIAL PUBLICATIONS.

The Calcuita Prices Current and Money Market Report, pubished weekly by the Bengal Chamber of Commerce gives weekly prices in Calcuita of Rangpur, Poola (common), Poola (good) and Bishpat tobaccos grown in Bengal Separate quotations appear fool old and new stocks. It is reported that the prices published are based on the daily wholesale rates obtained by the Chamber of Commerce from its members dealing in tobacco. Figures of exports and imports of unmanufactured tobacco are also published along with those of arrivals into Calcuita by rail

In the Vadras Presidency, a weekly market report published at. Virudhunagar gives information on prices of tobacco on the basis of which merchants in the Tharahi Handis give advances against lobacco stocks. The Madras Prices Current and Market Report published every fortungt by the Madras Chamber of Commerce gives, so far as tobacco is concerned only quotations of freight on tobacco.

Apart from these there do not appear any other non-official publications including daily newspapers which give any information on tobacco

The monthly reports on tobacco trade in the United Lingdom published by Wesser Frank Watson and Co and Edwards Goodum and Co give information on monthly imports re exports deliveries for home consumption stocks on band prices etc for each of the important countries (including India) from where tobacco is imported into the United Kingdom. In the absence of standard grades the prices of Indian tobacco, are not however quoted.

(3) POST TELECRAPH AND TELEPHONE

As already said earlier most of the big buyers of unmanufactured tobacco make purchases after unspecting personally or through their agents the lots offered for sale in the producing areas. Even the buyers from the United Kingdom adopt this system and since the last 3 or 4 years, they have been sending representatives to India to inspect the quality of the produce at bartest time. Only the smaller buyers purchase by correspondence after calling for samples. The use of telegraph is frequently made by big buyers in instruct may their agreed in the producing inserts at the time of instance garchases. Occasionally such instructions are given even by telephone Exporters to the United Kingdom use the foreign cable service more frequently than the use of inland telegram by merchants and manufacturers.

(4) GENERAL.

It will therefore be seen that apart from their own individual efforts, the producers and traders of tobacco have no other source from which they can obtain rehable information on the prices, stocks, etc., of different types of tobacco. In order to enable information to be published for the benefit of buvers and sellers a dependable LIGIAR

system of price quotations ought to be worked out. If this could be done it would bright the producers and consimers into closer contact. It has been seen that the official price quotations are of no commercial use in the absence of any definite system of classification and grading of tobacco. In organism any system of market intelligence, therefore the first essential would be to classify the area and production of tobacco at least by broad types se, cigarette epic abcuton of tobacco at least by broad types se, cigarette epic cheroot bids etc. as indicated in the supply chapter (page 27). The existing system is such that the quality of the article in each type again varies from one merchant to another. The factors that determine quality are however well known and it should be possible to define the various types and classes in accordance with these factors. A provisional system of classification is suggested later in the chapter on. Classification frading and Standardisation.

Once the types and qualities have been defined it should be possible to collect a series of prices in the principal producing areas at least once a week. The local marketing staff should be made responsible for the collection of these prices which can then be given publicity for the benefit of the producers and traders in the province. In the first instance only a few centres of production and distribution like Rangpur Gooch Behar Calcutta Muzzaffarpur, Darbbanga Patina Guntur Dindiguil Madras Nipani Nadisal, Bombay Delhi etc. might be selected. The price quotations from marketing staff for giving publicity to traders all over the central through the press. The radio also can be used whenever possible and desirable these.

Associations of grivers and traders might be formed to encourage improvement of tobacco crop selling by grades and for issuing leaflets in builetine on market intelligence. One such association market intelligence of the selling the Indian Tobacco Association Guntur organised as a result of efforts of the marketing staff early in 1937 is issuing marketing intelligence hulletine and leaflets on cultivation curing grading and marketing for the benefit of growers traders and maintainvers. The builetin is being is used monthly and gives information for the gracette tobacco producing area of Guntin district in Madras or weather and rainfall area condition of seedings transplanting harders fram prices and mports, stocks and prices in the United Kingdom which is the largest single foreign market for Indian tobacco.

INTER-CHAPTER THREE

A study of tobacco plices shows the supreme importance of quality and perhaps the most significant fact is that in recent years the plice of high quality tobacco has been on the rise while that of second quality has shown a tendency to fall. The average price of fluctured Virginia cigarette leaf, for example, rose by 46 per cent between 1930 and 1937. Even flist quality cigar and cheroot leaf, in spite of a leduced malket, showed a firmness in plice, but medium and small cheroot leaf showed a diop of 17 to 20 per cent. High quality bidi, hookah, and chewing tobaccos show a similar price tendency.

Prices of different kinds of tobacco leaf range from about Re 0 12 0 per mauud to over Rs 80 per maund, but the normal relationship is roughly as follows Virginia flue-cured makes about Rs 25 to Rs 40 per maund although it has been higher in recent years Natu sun cured grown in the Guntur area runs about Rs 5 to Rs 9 per maund The average for cigar and cheroot leaf is about Rs 8 to Rs 14 per maund and for bidi leaf Rs 9 to Rs 20, the bidi tobacco of the Nipam area being often over 50 per cent higher than that of Gujerat Chewing tobaccos show a wider range, from Rs 9 to Rs 40 or even more, but snuff tobaccos are on a much lower plane, round about Rs 9 to Rs 11 It is difficult to place an average for hookah types but a range of somewhere between Rs 5 8-0 and Rs 13 per maund would be about normal, the highest being for desi leaf of the Muzzafarpur district in North Bihar The vilayatı tobacco grown in the neighbouring district of Purnea commands the lowest price amongst hookah tobaccos but the prices of Punjab grown tobacco are not much better LITCAR

The price of the same variety of tobacco grown in the same district may vity from field to field in the same season. For example, the prices of Calcuttua produced in certain fields near Jaunpur in the United Provinces were as much as Rs. 24 to Rs. 26 per maind while tobacco produced in neighbouring fields fetched Rs. 15 to Rs. 16 per maind and some Rs. 4 to Rs. 6 per maind only. The value of the tobacco harvested in any one field varies according to the part of the plant from which it is drawn. For example, while middle leaves may sell at say Rs. 7 per maind, bottom leaves would make only Rs. 3 12 0 and the rationed leaf as little as Rc. 0 12 0 per maind. The earlier pickings tend to be of a hetter quality than later.

This perhaps accounts for what seems to be a peculiar fact in the tobacco trade as compared with other agricultural products, namely, that prices immediately after haivest are generall, higher than prices in subsequent months. This is particularly so in the case of cigarette and cigar leaf where colour is important. Unless storage is done under carefully controlled conditions the colour will deteriorate rapidly and subsequent randling will be difficult It is not surprising, therefore, if in most cases the manufacturers and processors pre for to buy their tobogo from the grower as soon as it is harvested There are instances of course especially in the case of bids and hookah tobaccos where colour is relatively unimportant, in which growers by storing and holding over their tobacco in good condition have been at le to get an enhanced price of 10 to 20 per cent six of twelve months after harvest. This is owing to the fact that all object o requires a certain amount of time to initial and that up to a point the quality steadily improves. As against the higher prices there are losses in weight etc during storage to be taken into account and under present conditions it may be accepted as a general principle that the grower is not likely to benefit

in any way by holding over his tobacco to a later season Only in very exceptional circumstances would be be justified in not selling his tobacco as soon as it is barvested and cined

It may be observed that the practice of selling green leaf is not common, though it is done to a small extent by growers in Guutin and Mysore who sell to the fluctum barns there. Usually the buyer only wants cured tobacco and is not interested in green leaf. The value of the crop is largely determined by the system of curing, and as the proper method of curing depends on the variety grown and the ultimate use to which it is to be put, it is highly important that growers should be better informed regarding the process. So far, apart from experimental work on the curing of cigarette leaf, there seems to be no work being done by agricultural depart ments on the improvement of the curing inetbods employed by cultivators in general to other types of leaf

The growing habit of cigarette smoking has already been referred to. This is reflected in the relatively high average price (over six amas per lb.) of tobacco leaf exported to the United Kingdom. This consists mainly of flue-cured Virginia and the prices are improving. The leaf exported to Japan, however, which is mainly suncured country tobacco, shows a falling tendency and is valued at round about Re. 0.3.0 to Re. 0.3.6 per lb. Exports to the Netherlands are of stall cheaper suraps. Exports of bidi and smoking types of tobacco to Aden etc., which were formerly worth about Re. 0.7.0 or Re. 0.8.0 per lb., are now valued at only about half that price. These tendencies are worth noting as an indication of the growing importance of producing egood quality cigarette leaf. The general tendency of tobacco prices to fall in Bengal and Bihar seems particularly worth attention by the authorities in those areas. This is probably due to the production of an excessive.

quantity of second quality leaf in those parts. A special study therefore, needs to be made in those areas of the type of leaf which is being produced and of the kind of land on which the tobacco is being grown with a view to increasing the proportion of first quality leaf and to meeting the market requirements better

That there is ample scope for expanding the market for high quality Indian tobacco is clear from the progress made in recent years in the Guntin district. The high quality flue cured Virginia produced there is continuing to displace American leaf imported for cigarette making. Further there are still large imports of chewing tobacco from Ceylon which sell in Travancore at very high pieces. It is impossible, therefore, to over emphasise the need for giving a closer study to the production of special high quality tobaccos in order to meet more fully the requirements of our own market.

As a record of facts or as a source of market news the prices officially recorded are probably even more hopeless in the use of tobacco than other commodities There is much need for an improved market news ser vice It will however be appreciated that in view of the enormous range in quality of tobacco grown in any one district it will probably continue to be essential for some time in respect of most tohaccos for the buyers to inspect the produce in bulk at the time of purchase When this is done on individual growers' holdings there is likelihood of considerable variation in price from one to the other and the grower on the whole is hable to get the worst of the bargain One obvious remedy would be for the establishment of a larger number of markets in the producing centres where growers could bring their tobacco for sale and be able to compare the prices offered for their produce with other lots enable buyers to obtain their supplies quickly and would in itself help to educate the grower in producing and

curing his tobacco in the right way. The pinces in such markets would also form a basis for comparison with those in other districts. It seems that there is at present only one tobacco market where attempts were made at regulation, ciz, that in Sangh State. There is, therefore, plenty of room for improvement and much need for the constitution of a number of regulated markets in each of the five main producing areas.

Where, as in the case of cigarette leaf, it is possible to devise systematic grading it would be desirable that all manufacturers and processors should contract with growers in advance, as is already done in one instance, for the delivery of their crop at the time of harvest and for payment on the hasis of the recognised grades. In the interest of price stability every possible inducement and encouragement should be given to the parties concerned to bring about this desirable state of affair.

CHAPTER IV -- PREPARATION FOR MARKET

A -General

Of all the agricultural crops the tohacco crop is one of the most succeptible to changes in soil, climatic conditions and cultural operations. The types and varieties which produce the best quality leaf under one set of conditions will yield quite a different quality of produce under another set of conditions Sometimes even different fields in the same locality require different tillage treatments and the farmer himself knows better the requirements of his own particular field though the main general operation after transplant ing is the conservation of soil moisture and aeration, apart from the operations of topping and suckering Topping and suckering are the most important after tillage operations which determine to a large extent the quality of the finally cured tobacco leaf These operations, however require considerable skill and judgment In the case of Virginia tobacco grown in the Guntur district, for example toliping is not generally considered necessary though there are occasions when this operation can be done profitably If the plants in a field produce thin small and light coloured leaves, it is always idvisable to top the plants. Plants which grow luxuriously and produce dark green leaves are not topped with a view to get leaf of light and fine texture intended for eigarettes and eigars. For indigenous consumption the leaf required should he of a coarse and thick texture which can be obtained by a judicious topping of plants Suckering is generally considered essential for all types of

Apart from the soil elimate and cultural conditions the quality of the tobacco leaf offered if r sale in market very largely depends on the way the tobacco crop is prepared for the market vir, on the minner in which it is harvested and cured. The quality of the finilly cured leaf is very largely determined on the way it is pict or harvested from the plant. The importance of circlineas in preparing the tobacco crop for the market cure be easily magnitude tobacco can easily get 9 annas or more per lb for his first grade as against 2 annas per lb for the fifth grade.

The leaves on the plant do not ripen uniformly The ripening process starts from below and gridually goes up the ripening process starts from below and gridually goes up the plant the foreign the position of the leaf on the plant is one of the important rutors athen into account by growers in sorting their tobacco leaf before this however the leaves are not generally harvested as they ripen in these careas. Ripening is indicated by a change in colour iron green to greensh yellow and in texture from soft and flexible to rough and brittle For the production of flue cured egaretic leaf must be fully mature before it is harvested otherwise it retains the green colour after it is cured. An over ripe leaf on flue curron

gives an uneven colour and lacks elasticity and fineness of texture.

To get the best results on curing, therefore, the picking of the
leaves from the plant must be done in 3 or 4 stages and only fully
muture leaves must be harvested. Fully matured and ripe leaves
alone give the best colour and texture on curing

The method of handling, green leaf after harvest has also effect on the finally cured leaf, particularly in the case of cigarette and cigar tobaccos Bruses, holes and torn suitaces which occur as result of rough handling of the green leaf or scorching of the green leaf which is exposed to the sun's beat for an unduly long time show themselves in the curred leaf

Of all the methods of curing the flue curing is the most complicated and expensive, requiring considerable skill and judgment. It pays hetter to adopt the expensive flue curing process cult for the type of leaf which the grower is confident will cure into 1 high grade and to rack cure the inferior diseased or stotted leaf as rack curing is much cheaper. Some of the intelligent growers sort the harvested green leaf into ripe medium and green if their observe any difference in the maturity of the larvested leaf. Each of the three qualities of green leaf are then loaded separately in the flue curing barns. But this may not be possible for all such growers and in that case they load all the three qualities in one barn juiting the green leaf at the top of the barn, the inedium in the middle and the ripe at the hottom. But such growers are few and far between and it would be best to describe, in linef the general methods of harvesting curing and preparing adopted in different areas for each of the important types of tobacco

B-Rarvesting

(1) CIGAPETTE AND PIPE TOBACCOS

(a) Virginia tobacco—In the Guntur area of the Vadras Fress dency, the Virginia tobacco plant is usually allowed to flower and set seed. The leaves are cut when they are fully matured. At this stage they assume a yellowish green colour. The harvesting season commences by about the end of December and may continue till lite in February Leaves, are cut generally in two stages. Eighning from the bottom once as they mature. The havesting is usually done in the evenings and leaves are then heaped in the field for the night to be carted to the harn next morning. Direct heat of the sun is avoided so that the green leaf may not get secrethed.

The method of harvesting followed in Uyeare is almost the sair c, letics being harvested singly as they ripen. Harvesting is generally done early in the morning the usual time heing between 5 30 a. it to 8 via. A field is completely harvested in 4 to 6 pickings bottom leaves being picked first as they ripen first. These are then followed by middle leaves which are pieled in 2 stages as they ripen the top let es being picked last. The harvested leaves are then immediately loaded into bullock earts and earned to the barn for curing

In the United Provinces also the leaves are harvested as they ripen. Usually two or three leaves are picked at a time. In Sund, the cultivation of Virginia tobacco has fast declined during the past three years but it is reported that in the case of those who still continue to cultivate it the whole plants of Virginia tobacco are harvested and then the leaves are separated from the stem before putting them in the curring harm. In the Bombay Presidency, the method of harvesting followed is the same as in the Guntur area.

(b) Country tobacco—In the Guntur district the leaves of country tobacco are harvested generally about 10 days after first sickering when they assume a yellowish green colour. As in the case of Virginia leaves are cut in the evenings but the whole carrest may be completed in one stage or two at the most. A portion of the stem about half an inch on either side of the leaf is also cut with a special curved knife. Next morning the leaves are taken to the curring shed.

In the case of Desi tobacco grown in Vorth Bihar the entire plat is harve ted by cutting it close to the ground. This is usually done early in the morning before the sun becomes strong. The flams are considered ripe for harvesting when a majority of the flams are considered ripe for harvesting when a majority of the cut-reason was a vellowish green colour with light brown spots. The cut-plants are then allowed to be in the field throughout the dar, being turned over occasionally so that they might dry uniformly like the evening the plants are collected and made into small heaps are turned over. They are again allowed to remain in the heap for another three or four days so that after about a week, the plants are again handled individually and the leaves separated from the stalls after they are completely willed. If the weather is cloud and the sin n tistone enough this willing may take even up to two weeks.

(2) CICAR AND CHEROOT TOBACCOS

In the case of cigar and eheroot tohaceos the harresting may be done either by cutting the whole plant and then by separating the leaves from the plant in the West Godavarr district of the Madras Presidency the plants are cut from the morning to noon and then the leaves are separated from t'e the leaves plant in the view of the leaves are separated from t'e the leaves here to dry up and the colour changes to brownish plant before being not may be also the leaves are cut from the plant before being not in the shelf of drying Similar is the plant seed of Lankas tobaceo about half the internode on either side of the leaf is cut along with the leaf. At Chebrole (Guntur district) grown harvesting is done in 4 to 5 stages the leaves being ent from the plant is they matter.

In the case of Jat and other eigar and cheroot tobaccos grown in Bengal harvesting commences as soon as the majority of the leaves on the plant show signs of maturity by way of chang of

colour from green to brownish vellow. In some places the seaves are harvested as they ripen the process being locally. known as Bachaalt. But the system of harvesting the whole field as soot as majority of the leaves show agas of ripening is the one most common and called Dhalakat locally. Harvesting is usually done in the carly part of the morning

In Burma the tobacco crop shows signs of maturity about the und'lle of April when the leaves become thick and sticky and show signs of brittlene's at the trp. The colour also turns into brownish yillow and some-lines the leaves show brown spots. There appears to be three distinct methods of barvesting and euring adopted to get leaf of different qualities for different purpose. (a) E Hise.—This leaf is used for manufacturing strong Butness cheroots for which only lea es of thir texture of the Bunnese Harana and Shuggyin varieties are used. b Hall Hise.—This is used with chopped tobacco stable for mahing hid cheroot (Hise Baul Leak Shin Hipet Leak, etc.) The two varieties hunging Hise and Ville Pyg Hise are cured by these unchoods. (c) Dak Hill Hise.—This is chopped or shredded tonacco used mainly for pipe smoking

In the case of E Hss or shade cured tobacco barresting and culturg are very carefully done as it represents the best quality tobacco. Topping and suckering operations are carefully conducted to leave ou an average only about 9 to 10 leaves on each plant. The leaves are not harvested as they mature though they are plucked as git when the plant as a whole shows signs of maturity. At the main picking only 6 to 7 uppermost leaves are gathered the 3 to exact nearer to the ground being larvested earlier or later as ω n venient. The e ground leaves are regarded as, of inferior quality and are selded meteloned worth the trouble of shade curing

The value of Kat Hae tobacco largely depends upon the exient of thickness of the cured leaf Topping and suckering are therefore very carefully done and usually only 8 to 9 leaves are taken from each plant. The leaves are harvested in 3 or 4 stages as they mature Immediately after gathering the leaves in the morning they are carried to a shed where they are laid one by one on a plank or other flat surface. To facilitate quicker drying the midribs are smashed with a light blow from a wooden rod. The following morning the leaves are taken out from the shed and are spread on the ground in the sun in a double layer, reverse side showing on the top but with the leaf blades overlapping so that the midrib of each leaf is exposed to the sun They are then lightly covered (presumably to revent them from being blown away or turned and to protect them from strong sun) with stall's of Kyn or Laing grass Lept in place by an odd rod or two of bamboo In some areas this holding of the leaf in places is done with strips of split baraboo placed 3 to 4 inches apart forming a framework or Kat It is from this though the use of these frameworks is not general that the process takes its name The leaves remain thus exposed to the sun throughout the dayduring the cloudy weather they remain for 2 days—and in the even ne when the air is cool and the leaves reasonably phable they

are collected, any leaf from which the midrih is not thoroughly dry being put aside for drying again the next day

In the case of Dah Hit-Hise, for which, in general, only the inferior tobacco varieties are used, the tobacco is shredded with a dah or a kinfe immediately after it is hought from the field. The leaves are harvested immediately after a majority of them show signs of maturity in the field The shredded leaves are then dried in the sair for 3 to 1 days the heaps being moistened from time to time suit for 3 to 1 days the heaps being moistened from time to time with a springhling of water. The damp tobacco is then finally pecked tightly in a basket which holds about 1 bushels and a cloth is ned over

In Burma not only the leaf but also stalls, stems and roots of the plant are used as tobacco. The stalks, stems and roots form the by products of tobacco cultivation and are locally called as His Yo These stalks and roots on a dry weight hasis probably represent bout 10 per cent of the total tobacco consumption in Burma After the leaves are harvested the bare tobacco stalks in the field are sold off to contractors and in the Shwegyin area they fetch about a rupne to list 9 per aere. The plants are uprooted and after shid ing off the earth they are cut into small pieces along with their roots. The percent of the single provided and their pounded by means of a pestle and mortar. The prunded maties them served and separated into three sizes. Tares wall buts and powder of stalks stems and roots form with tobacon.

af proper an important ingredient in the manufacture of mild and cheap cheroots (Hse Ban Ich han Hpef Ich, etc.) so universally smoled throughout Burran

(3) Bidi TOBACCO

About four fifths of the bid: tobacco crop grown in the Clarotar and Vipani areas of the Bombay Presidency is sold in the form of powder (Bhuko or Chura) the remaining being sold in the form of leaf lundles (Bandhan or Pendis) used for chewing chilam sinoling and hides For preparing bids tobacco powder the entire plait is l arvested by cutting it within 2 to 3 inches from the ground Haivest ing commences as soon as the majority of the leaves on the plant show sions of maturity which is indicated by the leaves turning yellow and having characteristic spots of reddish brown in colour plants are then kept in the field and expose I to the sun. After 4 to C days they are removed to the threshing pard. In the case of Lilio tobacco which is considered to be a better quality bidi tobacco grown in the Charotar area the crop is harvested when the plants are almost completely mature but a little before the appearance of brown spots on the leaves The harvested crop is then immediately carried to the curing yard where (usually under the shade of a big tree; a rumber of poles are erected at a distance of about 10 feet in thod of harvesting followed in the case of tobacco sold in the form of bundles is the same namely enting of the whole plants after they show signs of maturity

In the Hunsur area of Mysore also the whole plant of bids tobacco is cut 6 inches above the ground

(4) Hookah, CHEWING AND SNUFF TOBACCOS

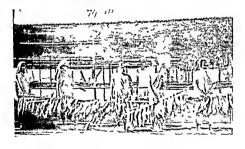
For these types, the harvesting is very largely done by cutting the entire plant, as for example in the case of the Desi or Poorbi tobaccos grown in North Bihar and the United Provinces and the Calcutting variety from the United Provinces, Punjab and Delhi Usually the harvesting commences when the leaves on the plant turn yellow and brown flecks appear on them Another indication of ripeness is that the leaves feel thick and gummy The time of har vesting is usually the early part of the day Similar are the practices followed in the North-West Frontier Province and Sind The cut plants are either left at their place or spread in rows or made into heaps The plants are then turned over occasionally so that drying may be uniform. In certain parts the leaves are separated from the stem after a few bours' or one or two days exposure to the sun The leaves are then spread on the ground or made into heaps for further drying and fermentation. Under normal conditions wilting takes place within 3 to 5 days after harvesting but if the weather is cloudy it may take 10 to 12 days. For example in Bihar the harvested plants are kept at their places and exposed to the sun on the day they are harvested They are then collected in the evening and made into small heaps. The heaps are usually opened up in the morning after three or four days and the plants turned over and left in the heap for another 4 days If the weather is cloudy wilting may have to be continued for 12 to 15 days

In Assam there are two methods of harvesting. In one case ouly the leaves are harvested whereas in the other the whole plant is ent Harvesting of the whole plant is followed in the Kharupetia area where the Motihars variety is grown to a small extent. In other parts of the province the leaves are sometimes cut from the plant with strips of hark joining them Immature leaves which constitute the Bishpat are picked singly. In Bengal the Wolsham variety which is both a hookah and chewing type is harvested by cutting the leaves from the plant Harvesting is generally done early in the morning In some places in the Central Provinces also the harvesting is done by cutting the leaves from the plants as they mature the case of Kabuu chewing and hookah variety of Farrukhabad district in the United Provinces the whole plant when cut is left in the field for about 2 days after which the leaves are separated from the st m The leaves are then spread in the field for drying and turned over after 4 to 5 days They are allowed to remain in the field until the midrib is dry Wilting of Desi variety-a chewing type of Biswan (United Proxinces) takes about 1a to 20 days

In the case of emolang tobaccos sold in bundles in the Charotar rea the leaves are stripped from the stem with a portion of bril The plants are harvested as a whole when the leaves show bright vellow colour with orange brown spots. The cut plants are then exposed to the sun for about 6 to 7 days after which the leaves are separated. The leaves are then allowed to remain on the ground for a day or two after which they are collected in the morning on a day when there has been a dew fall so as to allow a certain amount of moisture in the leaf for fermentation. In the absence of any dew leaves are moistened by sprinking a small quantity of water. In



A typical due-curing barn



Flue-cured leaf being unloaded from the barn

Rack-curing of Liho tobacco in Cheretar



A heap of b_{idt} tobacco powder ready for sale at a farmer's house in Charatar.

(1) FLUE-CURING

This consists of drying green leaf under artificial atmospheric conditions by adopting a process which does not allow the green leaf to come in direct contact with smoke or funes from the fuel and which permits the regulation of temperature and humidity The fine-curing method is followed almost entirely in curing the Virginia eigerette tohacco grown in the Guntur area, Mysore and the United Provinces. It is also adopted to a small extent for curing the better quality country (Natu) eigerette tohacco grown in Guntur.

The details of construction of a flue curing harn and the method that there are now (1938) over 2 x00 flue curing harns, in the country located almost wholly in the Guntur and Hysore areas. Two sizes of barns appear to he most common viz, about 20 ft × 20 ft × 22 ft corting about Rs 1300 and commanding 20 acres of tobacco and 16 ft × 16 ft × 18 ft which costs about Rs 800 and can manage "lout 15 acres of tobacco crop (see plate facing page 172).

Immediately after harvest the green leaf is carried to the barn premises where it is first strung on thin hambon sticks. Three or four leaves according to size are held together with the backs of that one end to the stick is drawn around the bunch about an inch from the butts and the bunch thrown over across the stick. The next hunch of leaves is on the opposite side of the stick so that the successive hunches are on the alternate sides of the stick which is about 5 feet long. Such sticks are then mounted in the barn for curing about 8 to 10 inches apart more space being allowed on but days. The inside of the harn is divided into a series of layers by means of hamboo poles which form tiers on which are arranged the sticks with the green leaf tied on them. Considerable trouble and judgment are required in arranging the green leaf in the barn and this is usually done the previous evening the furnace of the burn being lighted the next morning with all the ventilators and doors elseed.

of three man stages namely (1) yellowing of the leaf (1) Ringing the colour and (11) drying. The heating and adjustment of ten printiple mand (11) drying. The heating and adjustment of ten printiple made the harm is done by a system of thick metal flues bent twice in the shape of an U. The increase or decrease of temperature is brought about by adding or withdrawing coal to of temperature is brought about by adding or withdrawing coal to of the time transe and adjusting the dampers and eye pieces. The ventilators also prove useful. For the vellowing of the leaf a temperature ranging from 85°F to 100°F is used for 30 to 40 hours. The fixing of the colour stage lasts for 16 to 24 hours when the temperature is raised gradually as before from 100°F to 120°F. The moisture let off from the leaves is allowed to escape by opening the ventilators half at first and full afterwards. At this stage the web of the leaves becomes dry while the mid ri and veins have still

^{*}Production of Cigarette Tobseco by flue curing by F J F Shaw and Kasi Ram

some moisture. During the last stage which may last for 26 to 42 lour, the ventilators are gradually closed and the temperature is again slowly raised to 160°F After the mid ribs and veins are com pletely dried the fire is withdrawn and all ventilators are opened t, cool down the barn The leaf is generally left in the harn over night with even the doors kept open so that it takes moisture from the ur at night and permits handling the next morning when the bain is unloaded (See plate facing page 172) If the outside atmosphere is dry water is sprinkled on the floor of the harn and ventilators and doors closed at night so that the leaf will get suffi ciently soft for handling the next morning

This procedure is however far too general based on experi ments conducted several years back and it is likely that the period ic, irred for curin, may be curtailed with further experimentation so il at a larger area can be managed with one harn than at present

The weight of cured leaf obtained comes to about 1,5th to 16th the weight of green leaf The moisture contents in the cured leaf vary from 8 to 18 per cent Buvers are generally unwilling to buy cured leaf which contains more than 18 per cent moisture

(2) RACK CURING

Rack curing is far simpler than flue curing. In this the giern leaves are cured on strings tied to posts specially erected for the purpose The method is more commonly followed in Madras (for country cigarette cigar and cheroots chewing and snuff tobaccos) Bombay Baroda and Kolhapur (for bid: chewing and smoking Hyderahad (for cheroot and bid; types) and Assam (for hanl al tohacco) (See Appendix VIII)

In Burma about 30 per cent of the crop is rack cured

In the Madras Presidency the country (Vatu) cigarette tob eco grown in the Guntur district is cured on racks The leaves harvested in the evening are taken to a temporarily constructed shed or unler the shade of a tree and tied to a string about 21 vards long strings with the leaves tied on them are then folded and piled on the obtained. The leaves are then unfolded and tiet or racks granged to the next evening and the process repeated. Altogether about 36 hours pling its given after which a flow good yellow colou is obtained. The leaves are then unfolded and tiet to racks arranged in the open field Protection against rains is arranged with thick covering of mats as any contact with moisture during the drying stige spoils the colour and quality When the leaves are completely dry they are hulked on a cold dewy morning. In the curing of darker shades of country tobacco however a slightly different process is adopted. In this case the leaves are harvested during any part of the day and not in the evenings or mornings only. The harvested leaves are then tied to a string which are then fixed to racks erected in an open field The drying of the leaves takes about 11 months The dried leaves are then bulked early in the morning

At Ellore in the West Godavari district the cut leaves are threaded in the evening and hung up in the open for 24 days. They are after wards stacked and covered with Palmyra leaves during the day and

opened up at night At Mustadahad in the Kistna district, the leaves are string, in ropes about 7 yards long and cured in the value of rabout 2 montas. In the Viziagapatam district the cut leaves are dred in the shade for 3 days and then string up on racks. In the Midura district the leaves are harvested and heaped in the sane evening, string up and cured in the open sun for about 20 to 30 days, shifting being done daily. Much the same practice is prevalent in the Trichinopoly district.

In Bengal, the Jatt tobacco as well as the Vathars to a smaller extent is cured on racks. Immediately after harvest the green leaves are carried in bishests to the farmer's homestead where they are each into hanks, each containing 4 to 6 leaves. On the following morning there hanks are placed on hambog poles and hept in the sun for a to 6 days for dring, after which they are removed retied and are arringed on the poles more closely. The poles are again kept out in the sun for one to three days after which they are removed to the curing shed (which may be the grover's but or cattle shed or a temporarily erected structure) and kept horizontally in tiers. The leaves remain hanging in the curing shed for about a month or more, usually till after a shower of rain when they become fit for bandling the leaves are then taken off the poles and bulked into heaps.

In Assam, the leaves of tobacco after witting are hung up from bamboos or strings in the open for 7 or 8 days. They are then transferred to a room in the house of the grower where they are hung up from the roof for several days. After getting dry and brittle they absorb moisture on getting the first showers of rains after which they are taken out and tied into small bundles and bulked.

In Mysore the harvested green leaves of cheroot tohacoos are tied in bundles and hing up in pondads or curing sheds specially erected for the purpose. The plants are allowed to dry in the open air for about 1½ to 2 mouths and covered with date palm mats in crise of rains. When the mid rib is dry, the bunches are removed on a dewy morning and bulked in heaps on the ground over which litter is spread.

In the Bombay Presidency, curing of Lilio tobaccey leaves of the Charotar area is done on racks. The harvested leaves are carted to the curing yard where (usually under the shade of a big tree) a number of posts are erected at a distance of about 10 feet and corr strings are tred horizontally to these posts at two points from the ground. The leaves are first ned in hanks. Each bank con time about 4 to 5 leaves. These hanks are then placed on the strings hed to the posts for drying (see plate facing page 173). The complete curing takes place within about \$\delta\$ or 7 days if there is no dew fall otherwise it may take 10 to 12 days. Similar methods of rack curing are followed in the Baroda and Nipani areas to a small extent.

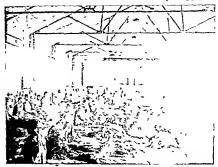
In Burma, temporary curing sheds are erected for curing E Hsc tobacco. These sheds consist of a framework of jungle wood with LUCAR.

hamboo and thatched roof extending from 15 feet at the centre to almost to the ground level at the caves The width of the curing shed is usually about 30 feet while the length is composed of a series of 10 feet sections varying in number from as few as 5 to as many as 10, the usual number being 10 to 12 The sheds are oren at both ends and one of the end hays is often used as working feeding and sleeping place by the cultivator and his family. In the sheds, the leaves are first sorted in three groups according to size They are then threaded through their butt ends Each string holds about 30 to 40 leaves The threaded hundles of leaves are then straddled on to 9 to 10 feet long hamboo sticks Separate sticks are used for each of the three grades of green leaf Each of the sticks holds about 7 hundles of green leaf Loaded sticks are then placed on the cross supports erected in the shed. The operations of drying tohacco leaves in the shed may take 20 to 40 days the actual period depending on weather condition Leaves with thick midribs may he taken out from the shed after 4 or 5 days and hung on races temporarily erected under a very light shade for 3 or 4 days in order to hasten drying of the midrib They are then put back in the shed to complete the drying process After the leaves are completely dry they are removed outside the curing shed in the evening and allowed to remain in the open during the night. If the dew fall during the course of the night is insufficient to soften the leaves water is lightly sprinkled over them. The next morning the leaves are brought hack to the curing shed where they are made into bigger bundles or hanks by tying the butt-ends of leaves with a string

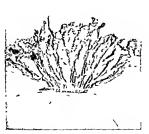
(3) GROUND-CURING

This is the most common method of curing tohacco in India Bomhay, Bengal Bihar, United Provinces, Punjab, Madras, North West Frontier Province, Central Provinces and Beara and Burna are the important provinces where the method is in vogue Hyderabad (Decean) Decean and Kohlapur States, Baroda, Cooch Behar and Mysore are among the important Indian States where the method is followed extensively. The usual process is that the plants are spread on the ground in the early morning and collected into beaps in the evening. The heaps are disturbed occasionally to present over heating. The process is continued until the midrib is quite dry this method has little after for curing a high grade eigarctic tobacco, since the leaf gives up its moisture slowly and turns different provinces where it is in vogue. The underlying principle however, is to hring about a certain amount of fermentation either op putting the leaves in layers or in heaps

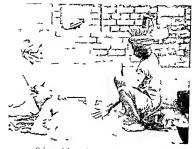
In the Bombay Presidency, Lal Bhulo and Chura are removed to the threshing yard after exposing them in the sun for four to six days. They are turned over one or twice while exposed to the sun. The mudribs and veins are stripped and the leaves are further allowed to dry and then broken into pieces by hand. The midribs are assorted and beaten into small pieces and mixed with the leaf powder the mixed powder is then ready for sale (see plate facing page 173).



Sorting and strupping of eightee teat in an exporter's golown at Guntur



A hank of Bishput leaf from Cooch Behar.



Calcut a tobacco being made into powder



Interior of a $Bhul\cdot$ factory in the Charotar area showing the sieves used in the preparation of $b\;d$ tobacco mixtures

In Bengal, the Motikars variety is cured in the sun by spreading the green leaves on the ground or mat or a hambor platform during the day. At might the leaves are removed to a shed and this process is continued till the mid ribs become dry. After this the dried leaves are ted into hanks each containing 8 to 12 leaves. These hanks are then taken to a shed where they are hung on hambor poles for further drying usually till the first mousoon showers are received. They are then bulked into heaps.

In Bilier, the dried plants are gathered in the evening and made into small heaps. The heaps are opened up in the mornings. The plants are again allowed to remain in the heaps for another four days. If however, the weather is cloudy the process might be continued for 12 to 15 days. The leaves are then stripped from the stem.

Honoth tohace in the United Provinces is also cured in heaps. At Kampil in Farrukhabad district in the United Provinces which is famous for its hookah tobaceo the villed plants are collected into heaps which are left in the field for two days and then made inhindles of two or three leaves. The bundles are again heaped up and stored in the barnstead and turned occasionally fill finally cured. In plants of Calculi's variety are drued in the sun after which tley may be either tied in hundles or to isted into ropes (Rus a) or heaten muto powder (see plate facing this page)

In the Punjab which grows hoolah tobacco manily, the wilted plants are beaped on the ground in two or more rows. In the beaps the plants are so arranged that their tops overlap in the centre of the beaps with the builts facing upwards. The beap is covered with beary cloth and is allowed to remain as such for six to eight daws. During this period fermentation sets in and the tobacco develops aroma After this the beap is examined. If the leaves have developed a yellowish brown colour the heap is opened and the plants are aired in the sun for a short time. In case fermentation is not complete the heap is allowed to remain undisturbed. If on the other hand the fermentation in the centre of the heap is complete with the top layers remaining uncured the heap is opened and re arranged in such a way that the top layers go to the hottom and the hottom ones come to the top. After the plants are aired the leaves are stripped from the stalks and twisted into ropes which are known as Russa and Khabbars in the local parlance.

In the horth 1 cst Frontier Prosince the ening of the hookah tobacco is done by drying the plants on the field. The leaves are exposed to the sun on both sides for two to three days each until they dry up. After this in the early hours of the morning when the dew has fallen and the plants are wet they are collected and carted to the house where the leaves are separated from the stalks and stacked in a room. The heap is covered with quilts, or blankets with a view to retain moisture and avoid excessive evaporation. In the case of aunif tobacco the plants are allowed to dry in the sun for 4 or 5 days after which they are collected in the early hours of the morning After a week the plants are made into small bundles weighing about 2½ seers each and builded in the open sun and covered with some

matting After a week or so the stock is stirred and the bundles are again heaped for another week to complet, the process of drying, after which the produc is ready for baling

The method of curing tobacco in the Central Provinces is some what different. The plants after wilting are removed to the harvest floor where they are arranged in parallel layers of three or four plants in depth. Between the two lines of tobacco a way about 2 ft wide is kept to facultate handling. The plants are allowed to remain in the layers for three or four days and then water is sprinkled over them in the evening so that the plants may remain damp overnight. They are arranged in a heap early next morning. The heaps are covered with Kadh. Ghowar Andropogan Sarphim stall s) or bamboo matting and gunnys so that fermentation may take place. The plants are allowed to remain in this condition for three to five days. In the case of stripped leaves they are drad completely and then heaped on matting and sprinkled with just enough water to wet all the leaves. They are then covered and kept for three to five days so that they may become soft and plable.

In Burms the method of curing Kat ksc is again different. The dried leaves are heaped with the individual leaves flat upper surface against lower under a covering of gunny or in a receptiacle closed against air entry. Here they remain for several days or even weeks during which time the rest of the crop is similarly treated. When the whole crop has been dried the flattened leaves are taken singly from the heaps highly sprinkled with water (to which tamanind is sometimes added to give flavour) and bunched into hanks of 30 to 40 leaves each.

In the case of chewing tobacco in the northern area of Mysore State the whole plants when cut are allowed to remain on the ground for 5 or 6 days after which they are turned over in the early morning to expose the other side for another 5 or 6 days after which they are removed to the curing sheds and hulked and re hulked for 15 to 20 days. The leaves are then separated from the stalks and tied into hundles according to their lengths

(4) PIT CURING

As the name indicates the enring of the leaf is done in pits in the ground. The method however is not so common. It is mostly found in the Pun ab. Bombay and Madras where hookah and chewing tobaccos are cured in this way.

The Puniab appears to be the most important province for picturing Nearly all the tobacco grown in Jullundur, Ferozepur, Gujerat and Jhang districts is pit entered. The pits are lined with reeds or some straw on all sides in order to prevent the mixing of earth. When the pit is ready small heaps of wilted plants are arranged in layers in it. In Ferozepura a layer or two of Ak (milk weed cattropis) leaves are placed between the layers and this is supposed to increase the pingency of the cure.] leaf When the

plants are arranged in the pits, the top layer is covered with straw and then heaped over with earth. The top of the pits stands 4 in — 6 in above the ground so that rain water may not percolate in the pit. The plants are allowed to remain in the pit for about 6—8 days after which they are twisted into ropes or made into bundles.

In the southern tobacco tracts of the Bombay I+residency, Pendia (bundles) are prepared from the tobacco cured in pints. The plants on harvesting are sprinkled with water if there is no den. They are then put in pits about 3 ft deep with a ining of Kadhi straw (Andripopan) on the sides and at the hottom. The pit is covered with a gunny cloth over which a layer of Jouar (Andripopan sorphium) stalks is placed. The plants are weighted down with clocks and stones. The pits are opened up within 3 or 4 days. The plants, are bowerer allowed to remain in the pit for 10 or 12 days for kali (black) pendis. The leaves are then stripped off the plants and made into bundles. The pits are rectangular in shape and 2½ ft —3 ft deep and are lined on all sides with reds or straw.

In Madras, however, the process is slightly different. The dried plants when removed from the field are kept in small beap of four or five plants for a few days. They are then certed to a pit 6 if deep, 10 ft diameter at top and 8 ft diameter at bottom and filled well above the pit for about 3 ft. A layer of tree leaves is used and the pit owered with mud. The plants are kept in the pit for twelve to fifteen days. On removal from the pit, the stem is cut into two halves, leaves are stripped and strung up. The leaves are kept in the open for three or four days and in the shade for a month with frequent irrining

Though the curing in pits provides shelter against winds, rain and hallstorm, there is the danger of overheating in the pits if they are not opened up at the proper time

D -Sorting, bulking and re-conditioning.

After the tobacco leaf is cured, it may be sorted into different qualities hulked for some time for fermentation, and reconditioned in the case of cigarette tobacco Excepting in Bengal, Bihar, Madras, Misore and Birima sorting of cured leaves into different qualities is not practised to any appreciable extent Bulking is done by piling the cured leaf into heaps when it ferments on account of swearing resulting from the moisture contained in the leaf. A certain amount of fermentation in heaps helps to drive out excess moisture and is considered to improve the flavour and aroma Ke conditioning is a process by which the amount of moisture contained in the cured leaf is regulated and is considered essential for better qualities of eigrarette tobaccos.

(1) BENGAL

Leaves as a rule are sorted out by the growers who sell their crop in a semi cured state. The final curing of the crop is done by the merchants or on their behalf by the commission agents who have large curing sheds and watchouses for curing, sorting, bundling and bulking of tobacco.

The sorting of leaves is done to suit the requirements of indiring duril merchants. Sand leaves of both Jat_1 and $Mathan_1$ variets known as Bishpat are sorted out and bulked separately. The brittle leaves of Jat_1 variety are kept separate and go under the name of Poolah in Calcutta market.

In Jata variety thick heavy and broad leaves are separated from thin hight and pointed leaves the former heing meant for wrappers and fillers of cheroots and for chewing for despatch to Rangoon and the latter for despatch to Moulmein in Burma

In Motihar: variety the smaller leaves are sorted out and go under the name of Vilayat: or Bilayat: while the bigger leaves are sold as Motihar:

After taking out the tobjeco leaves from the curing sheds they are tied into small bundles each containing 13 to 15 leaves In tying these bundles care is tal en to put the best quality leaves on the outside of the bundles the poorer leaves going at the centre The bundles are then bulled in circular stacks with the buttends of the leaves showing on the outside. The stacks are not disturbed for a fortnight or to after which they are opened. The bottom and top layers of leaf are placed at the centre while the middle layers go at the top and bottom. This process of rearranging the bulk is done frequently to prevent overheating in the bulk and to obtain uniform colour During the three months April to June restaching may have to be done on os muny as 8 occasions and the stacks have to be examined periodically to see if there is over heating. At the time of the final re stacking the best quality leaf bundles are put at the top and sides of the stack as it is at this time that the final sale to exporters or manufacturers takes place

tobacco gets reduced to fine powder or dust. This is known locally as dhas and used for cheap sinff and hoolah tobacco. The different types of tobacco powders thus prepared are then filled in gunny bags which are then stacked one over the other in a godown for maturing

In the preparation of leaf bundles the cured leaves are tied small bundles, the best leaves being placed uppermost on each side of the bundle and the poorer ones going into the middle. These bundles are then heaped for fermentation. The heap is re arranged periodically to prevent excessive fermentation and the leaf gets ready for the marlet within about 4 to 6 weeks after it is first hundled and stacked. Afterwards the bundles are baled and stacked one over the other in a godown

(3) MADRAS

In the Guntur district, the Virginia eigerette leaf is unloaded from the barn in the coolness of the evening Lept in shade overnight and bulked into beans on the following morning. Bulking consists in arranging the cured leaves along with the string to which they are tied, in hears on a raised platform in such a way that the butt ends show themselves outside at the periphery of the heap raised platform helps the free circulation of air underneath the bulk and this prevents the formation of moulds on the leaves The size of the bull varies in accordance with the quantity of leaf produced by an individual farmer but in the case of a small grower it generally consists of fifty strings of leaves. The bulks are covered with mats or tarpaulins Fermentation soon sets in the bulk and a certain amount of heat is generated on account of sweating due to the moisture contained in the leaves. The bulks are therefore dis turbed and rearranged once in two or three days in the initial stages and at less frequent intervals afterwards. It is the usual practice to examine the bulk at least once a week to see if it has become too warm inside. In the process of building the slight greenish times of the leaves turns into vellow and the leaves become soft and pliable In the case of growers who have entered into contract with the Indian Leaf Tobacco Development Co Ltd to deliver leaf of different grades the thoacco is graded at this stage. After grading the leaf is packed into loose bales. In the case of other growers, it is the usual practice to bale the leaf without grading but after removing trash and spoiled leaves

With regard to country (Natu) light tobacco bulking is been immediately after the leaves are dry on a cold dewy morning. The strings of cured leaves are folded and kept in a dark room in a poorly ventilated corner. The beaps are disturbed and re arranged once in 2 or 3 days in the beginning and it the less frequent intervals of about a week to 10 days a month later. The strings of leaves are then packed in open bundles. Rarely are the leaves graded except probably for the removal of trash and spouled leaves. The bales are then carted to the buyer's godown. In the case of country (Natu) darket tobaccy, the bulks are shifted and rearranged at longer after vals of about a fortnight to a month. At the time of re arranging the bulks are weak solution of jaggery and myrobalans is sprayed layer.

by layer on leaves and this is supposed to develop a reddish colour and aroma in the leaves. After the growers have completed the bulking operations the eigenretic leaf is sold to exporters and manufacturers. The loose bales at featuren En purchased leaf is then carried to the leaf working factories of the exporters and manufacturers. The loose bales as received from the growers are then instead in these factories and graded into different qualities in accordance with the grading practices adopted by individual merchants and manufacturers (tight leaves and the second of the leaves of

After the grading and stripping operations are over the leaf is reconditioned or redried. For this purpose all the leading exporters and cigarette manufacturers use the reordering or reconditioning plant. This plant consists of a series of three chambers in each of which the heat and humidity are regulated. The tobacco leaf is passed through each chamber under the action of steam and strong air current The agnificance of the re-conditioning process hes in the fact that it re-dries the leaves to uniform moisture besides helping to kill the insects and germs that may be present in the leaf by the high temperature maintained in the first chamber of the machine The tobacco leaf as emerges out from the plant is in 2 soft and pliable condition and contains 10 to 12 per cent of moisture Immediately afterwards the leaf is packed either in bales cases or hogsheads The tobacco leaf as redried by the reconditioning plant negatives the longer leaf as required by the re-conditioning property of the support of this and the without much deterioration in colour. On account of this and the fact that the high import duties in England are collected on the hasis of weight of tobacco the importers usually prefer to buy leaves from Indian merchants who have got re-conditioning plant. It is observed that the tobacco leaf exported by merchants possessing re-condition ing plants sells in the Finglish market more readily and at a slightly higher price than the leaf exported by merchants who have not got such facilities The cost of a machine and other equipments however is very high and may range from about Rs 40 000 to Rs 1/0 000 which is beyond the means of smaller exporters. The number of reordering plants operating in India in 1933 was only 8 In 1937 it rose to 13 which are estimated to have re-dried about 25 million 1b of eigarette tobacco. The number of machines operating in 1938 is estimated at about 15 It is reported by the exporters possessing these machines that the cost of re-drving comes roughly to about 3 pies per lb and that the extra prices realised is about 6 pies per lb

In the case of other types of tohacco grown in the Wadras Press dency bulking is done by arranging the cured leaves in lieaps which is disturbed and re-arranged periodically to prevent excessive fermentation. If the weather continues dry water is sprinkled on the leaves and this practice of damping the leaves is more prevalent in the

districts of Madura, Ramnad and Tinnevelly Sometimes palmyra Jaggery water is added to give the leaf sweet aroma and taste In south Kanara, sand is deliherately sprinkled on the plants

(4) BIHAR

After the plants of Dest tohacco have become sufficiently dry, the leaves are separated from the stalk and sorted according to their size and situation on the plant The middle leaves (Murhan) form the first quality followed by the hottom leaves (Chhabua) and top leaves (Rainti) The ration crop which is locally known as Donn is cured and sold separately The leaves of each of these qualities are then bundled separately, each hundle containing 8 to 10 leaves These small bundles are then arranged into a heap on a pakka or plastered The heaps are broken up frequently at an interval of 5 to 7 days and again rebuilt so that overheating in the hulk may be avoided The process is continued for 20 to 35 days Similar is the procedure followed in the case of Vilayati tohacco except that sorting of leaves is usually not practised

(5) OTHER AREAS

In the United Provinces, the cured plants of Desi tobacco (Sitapur district) are hulbed in a heap or Gan; for about 2 days after which the leaves are separated and tied into hundles. The bundles are then again hulked in heaps. The heaps are examined periodically when water is sprinkled, the heaps turned over and the process is continued for about two to three months after which the leaf becomes dry and strong Similar are the practices observed in the case of Calcuttia variety except that the leaves are not separated from the plant In the Punjab no sorting and hulking is done to any extent In the course of hundling or roping good and had plants are mixed together though a few growers put hetter quality plants on the outside at the time of preparing ropes (Russa) from cured tobacco plants in the North West Frontier Russa) from cured tobacco plants in the North West Frontier Russa (Frontier Russa) from cured tobacco plants in the North West Frontier Russa) from cured tobacco plants in the North West Frontier Russa (Frontier Russa) from cured tobacco are dred the leaves are separated from the stem and then hulked in one of the living rooms of the grower The halk of the leaves is covered with quilts or old blankets to prevent the levies from drying too much After about a week the leaves become ready for sale In the case of Assuar tobacco the dried plants are heaped into bulk. After about a weel the bulk is broken up and the plants are tied into bundles of about 23 seers each The hundles are then again hulked into a heap in the open sun the heap being usually covered with matting After about a week or so the heap is again broken up and the bundles are aired for a day They are then agam bulked into a heap for another weel after which the produce is packed in hales

In *Hysore* the flue cured eigarette leaf is bulked on long raised platforms The bulks are about 3 to 8 feet broad and 4 to 6 feet high The leaves are so arranged in the bulk that the tips of the leaves are towards the inside The whole leaf is then covered with a tarpaulin and wooden planks with weights added to press down the bulk bulking the greenish tinge on the leaf turns into vellow. The bull are examined once in 3 or 4 days and in case the leaf inside the bilk is found hot or mouldy, the bulk is broken up the leaf ared and the hulk rebuilt. The leaf remains in the bulk for about a month or till sold after grading. The grading is done on the hasis of colour and such defects in the leaf as spots, scalding and sponging, etc. Due to the fact that the area is yet small, the flue cured leaf is not stripped or reconditioned. The chewing leaf is sorted according to size after curring and then bundled. The bundles are then bulked in a heap for sweating for about a month. The beap is broken up and the bulk rebuilt once in three days after wards. Similar practices are followed in the case of bid; and spuffichance leaves.

Birma—In the preparation of tobacco (E-hse) for strong cheroots the green leaves are first sorted according to their sizes, the normal method being to put 2 ft long leaves in the lat grade 1j ft in the 2nd and 1 ft long leaves in the lat grade 2 ft fer curing the leaf hanks are built buttends outwards, into a fermentation heap varying in according to the first leaf southern the southern and the state of the first leaf southern and 2 are often heaped tagether but their d grade is almost invariably heaped separately. The heaps are croken up periodically, whenever the loaf inside the bulk gets het to termentation. In rebuilding them the position of the leaf bundles is changed to ensure even fermentation. Four oax rebuilding states are usual at gradually increasing intervals of approximately 3 states are usual at gradually increasing intervals of approximately 3 states are usual at gradually increasing intervals of approximately 3 states are usual at gradually increasing intervals of approximately 3 states are usual at gradually increasing intervals of approximately 3 states are usual at gradually increasing intervals of approximately 3 states are usual at gradually increasing intervals of approximately 3 states are usual at gradually increasing intervals of approximately 3 states are usual at gradually increasing intervals of approximately 3 states are usual at gradually increasing intervals of approximately 3 states are usual at gradually increasing intervals of approximately 3 states are usual at gradually increasing intervals of approximately 3 states are usual at gradually increasing intervals of approximately 3 states are usual at gradually increasing intervals of approximately 3 states are usual at gradually increasing intervals of approximately 3 states are usual at gradually increasing intervals of approximately 3 states are usual at gradually increasing intervals of approximately 3 states are usual at gradually increasing intervals of a states are usual at a states are usual at a states are usual at a sta

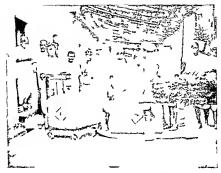
E-Bundling and packing

(1) BENGAL

The leaves are first ted into small bundles, each weighing about 2 seers (see plate facing page 176). At the time of typing these bundles the leaves may or may not be spread and fattened in the case of leaf exported to Burma the leaves are usually spread and fattened and to facilitate this the leaves are first sprayed with water to make them phable. Different types of bundles are prepared for different markets in Burtynes of bundles are prepared for different markets in Burtynes of bundles are prepared for different markets in Burtynes of bundles are presented but the usual method is to arrange the leaves by shape of a palm of hand. The butt ends are tred with a coloured leaves are arranged on the outside of the bundle the inferior ones being put in the centre. The bundles are then tied in gunny cloth and sitched to form a bale. Each hale weighs from about a mannd and ten seens.

(2) BOMBAY

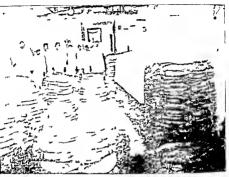
In Bombay, there are many systems of preparing tobacco leaf bundles In the Charatar area the bundles may be divided into



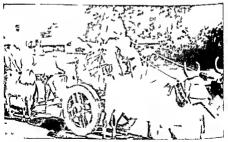
A bale of cigarette lear reads for export



A hogshead of eigarette leaf



Leaf tobacco bundles arranged in a warehouse in the Nipani area



A tobacco bale ready for export to Aden being carted to a railway station

two classes according to the colonr of the leaves namely Lal Bandhan and Kala Bandhan The leaves in Lal Bandhan are yellowish brown to reddish brown with spots whereas the leaves in Kala Bandhan are dark to jet black In the Aspans area the bundles are called Hatpan and Pendis, the former being similar to the Lal Bandhan of the Charotar area Generally in making the bundles the leaves are separated from the stem on a dewy morning so that they may be moist and tied into bundles. Care is talen that the leaves are not too most so that the colour of the bundles may not turn dark brown or black. Bundles may be made with or without spreading the leaves. In both the cases the best leaves are arranged on the ton and the hottom and the inferior leaves are placed in the middle The hundles of Hatpan are prepared by selecting 3 or 4 best quality leaves selected from each plant Each hundle contains 20 to 30 leaves Pendis are prepared in a somewhat different way. They are made of pit cured tobacco. The leaves are on stripping from the plants divided into two grades The superior leaves are used for the outside layers and the inferior one are placed below In the Vipani area the bundles (see plate facing this page) weigh 6 to 12 lb whereas in Satara they weigh 20 to 40 lb In certain parts however smaller hundles of 19 to 20 leaves are also prepared

The bundles are usually packed in hales each weighing 160 to 180 and .40 lh The sizes of hale- are 40 in \times 28 in \times 14 in and 40 in \times 28 in \times 6 in respectively. Smaller hales of 100 and 200 lh are made for tride with Mount Abu and Marnar Bigger bales of 400 ll are sliss made. The hales of 9½ maunds are used for export to Aden for which a lining of straw is put. The hales in this case are about 4 ft long and 4 ft \times 2½ ft at one end and 4 ft \times 2½ ft or 3 ft at the other end (see plate facing this page). These bales are slightly tapering at one end

The bidi tohacco powder is packed in gunny bags in both the Charloff and Alpani areas. Either only one hag is used or two are joined together to form a bigger container. The smaller sized hag is about 4° inches long and contains about 100 to 190 lb of tobacco powder while the higger sized package weighs about 200 lb and is over 75 inches long with 56 inches eight.

(3) MADRAS

In the Guntur area growers pael strings of Virginia and country (Natu) tobacco leaves in loose and open bales but covered with gunus cloth on the two end sides. The manufacturers and exporters unloosen the leaves from the string grade and strip them and then pack after redrivir either with the help of a reconditioning plant or in the sun. The packing is done in gunus bales wooden cases or howsheads the leif in each of the three types of packages being pressed close by means of a hydraulic press and by trampling. The leaf exported to Japan is packed entirely in bales (see plate facing page 184). Exports to the United Kingdom are also packed in bales though during the past three or four years the use of hogsheads and cases appears to be on the increase particularly in packing the higher grades of Virginia fine cured leaf (see plates facing pages

184 and 186) The size of each bale is about 47 in \times 16 in \times 16 in and holds about 240 lb to 250 lb of leaf. In preparing bales, the leaf bale is first wrapped in writerproof paper over which is put a date palm matting. The whole bale is then stitched in guinny cloth. The wooden cases generally measure either 42 in \times 29 in \times 29 in \times 29 to contain about 300 lb of leaf or 36 in \times 25 in \times 22 in lolding about 250 lb of tobacco leaf. They are lined with water proof paper before preking the leaf into them. The normal size of hogsheads is used for export is 48 inches in height and 44 inches in diameter to hold 850 lb of leaf.

It is understood that at present horsheads have to be imported from abroad mostly from the United States and as such being expensive are bevond the reach of ordinary experters. Wooden cases also do not appear to be easily obtainable in the Guntur area. The American tobacco received in the United Kingdom market is received in hogsheads and it seems to be the general opinion of manufacturers in Eugland that the leaf matures better in horsheads than in bales and that there is more damage by breakage when the last is packed in bales. It would be therefore desirable to investigate the possibilities of preparing horsheads from local wood

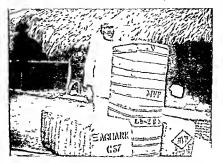
In the Combatore district date palm matting is used in packing the tobacce leaf into bates which weigh from 50 lb at Palladam Talik. 100 lb in Combatore Talik to 120 lb in Pollach it he insulative noise 2 feet square also packed in palm leaf mattines, the bales varying in district is also packed in palm leaf mattines, the bales varying in Kistina district are also packed in palm leaf matting but are of larger the method of packing backed in palm leaf matting but are of larger the method of packing is the symme. The bales in Madura measure ach weight a sum $\times 25~{\rm m} \times 9~{\rm m}$ and weigh and other districts also about 30 in $\times 25~{\rm m} \times 9~{\rm m}$ and weigh about 125 lb. In Madura and other districts also about 30 in $\times 25~{\rm m} \times 9~{\rm m}$ and weigh about 125 lb. In Madura element and sumf to bacco leaves are pool of 125 lb. In Manashore collected in the cather la bandles are of varying sizes and each weight 14 to 2 mannla. The bundles are of varying sizes and

(4) BIHAR

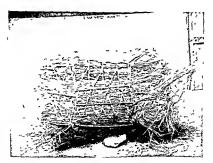
The leaves of both Dest and Vilayat, varieties grown in North Bishar are first tied into small bruks or bundles each containing 5 to 10 leaves. These bindles are then made into bales wrapped in stray and tied with strings (see plate facing this page). The bindles are rectangular in shape but of different weights varying from 3½ to 6 mannds.

(5) OTHER AREAS

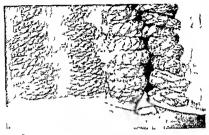
In the United Provinces the cured plants of Calcuttus variety are citle r twisted into ropes (Pussa) (see plate facing page 187) cach weathing about 3 mainds each or powdered with wooden mallets Chewing tobseco is however made into small hanks of two to five leaves which are then thed into larger bundles each



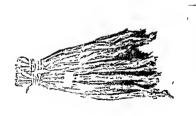
Bales of cigarette tobacco leaf ready for export (Apte the AGMAPE tale who h costants leaf graded according to standards)



A base of leaf tobacco from Bihar.



Ra sa or ropes of Calcutta tobacco stored in a godown



A bundle of des tobacco leaves in United Provinces.

weighing about 4 to 5 lb (see plate facing this page). The flue cured eigarette leaf produced near Saharanpur is packed in gunny dolth. Lach bale weighs about 180 lb and measures about 2 ft × 3 ft. In the Punjob, the tobacco is packed in gunny cloth and each package weighs about 14 to 2 maunds. Larger-sized packages are also prepared by tying tobacco in date palm mattings (see plate facing page 188). In Sind, the cared tobacco leaf is packed in Pluds, baide of mattings and each Pluds weighs about 12 to 25 mannds when packed. Gunny bags are also used for packing instead of Pluds.

In *Uysore* bids and souff tobacco leaves are made into bales by packing them in date palm mats secured by means of ropes. The sizes and weights of bales vary and each bule may weigh from 2 to 6 local manuds of 32 lb each. Bids powder is packed tight in gunny bags. Chewing leaf is also packed in mattings to form a bale.

In Burma the leaves are first tied into small bundles of 20 to 40 leaves. These bundles are then packed in large bamboo baskets each of which holds about 350 lb of leaves as in upper Burma. In lower Burma small bales each weighing about 93 lb are prepared by packing the leaves in quinty cloth.

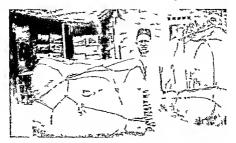
F-Cost of preparation for market

So far as the grower is concerned the cost of preparation for market consists of expenses incurred on harvesting sorting and carrying the green leaf curing bulking sorting of cured leaf bundling and packing. The following figures indicate the average cost of preparation for market incurred by growers in different areas—

The second secon	40000				
		Average cost of preparation			
	{Per	ma	and)		
India		Rs A P			
Bengal	1	1	9		
Bombay (Lal bids powder)	0	8	8		
Bombav (Laho bidi powder)	0	6	4		
Madras (Flue cured leaf)	5	10	0		
Madras (Otner types)	2	7	3		
Bihar	2	2	0		
United Provinces	0	9	9		
Punjab	0	15	11		
Central Provinces and Berar	1	2	0		
Sind	1	14	9		
Mysore (Chewing)	0	15	0		
Mysore (Snuff)	2	1	0		
Baroda (Judi or bundle)	2	12	6		
Purma	0	15	1		

It is thus apparent that the cost of preparing flue cured leaf is the highest being about Rs 5 10 0 per maund or a little over 1 ama per lb. The cost of preparing leaf bundles in Baroda (of the type exported to Aden) comes to Rs 2126 per maund. The lowest cost is that of preparing but prowders in Bombey. In this case the curing is done by the simplest process of drying the leaf in the sun and apart from harvesting and curing there are no other costs like those of sorting bulking and even packing. Packing is arranged for by the buyers after the bids powder is purchased on the cultivators holding.

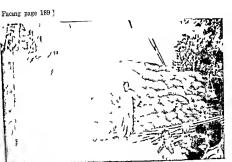
Apart from the fact that the preparation of fine cured leaf for the market is most expensive additional costs have to be incurred by manufacturers and exporters in the matter of further grading stripping stemming pressing and packing. At Guntur the cost of grading comes to about Re 240 to Rs 280 per bale of 250 lb while the charges for stripping pressing and packing in bales come respectively to Rs 280 Rs 0-40 Rs 0-120 per 250 lb of packed leaf In the case of country (Natu) the cost of removing stems from the leaves comes to about Rs 2 per 250 lb of processed leaf The cost of redrying with the and of a reconditioning plant comes to about Rs 4 per bale of 250 lb



Tobacco packed in date palm matting, in the Punjab



Fixing price under cover at a datal's processing factory and godown in the Cha ota area of Bombay Gujerat Left Farmer centre datal right—village sub adal



A = p of l d tobacco bags received from villages and stacked in the godown compound of a datal in the Charotar area



A general view of a b dt tobacco processing factory in the Charotar area

[Preparation for Market.

INTER-CHAPTER FOUR

The preparation for market really begins with harvesting but attention needs to be drawn to the importance of pie harvest operations such as topping and suckering. Plants which grow luxuriously and produce dark green leaves should not be topped if it is desired to have the leaf sufficiently light and of fine texture for agarettes and argars. It is desirable, however, to hip the top off weak growing plants in order to get good body in the leaf, and in the case of leaf for indigenous consumption in the form of hookah and chewing tobacco, to obtain a coarse thick texture topping is indispensible

The main steps in the preparation for market are harvesting, curing followed by sorting, bulking and reconditioning and finally bundling and packing

The harvesting of tobacco for cigarettes, pipes, cigars and cheroots is done leaf by leaf in stages as the plant matures, beginning with the bottom leaves and working upwards. Harvesting should be done in the early morning or evening since direct heat of the sun is to be avoided. Only mature leaves should be picked. This stage is generally indicated by the leaves turning a yellowish green colour and becoming brittle. The leaves after picking may be heaped in the field overmight and carted to the curing barn the following morning.

In the case of bids tobaccos and those intended for hookah and chewing, the entire plant is harvested by cutting it within 2 or 3 mekes from the ground as soon as the majority of the leaves show signs of maturity. This in the case of bids tobacco is indicated by the leaves turning yellow and having characteristic spots of a reddish brown colour. The cut plants are then kept in

the field and exposed to the sun for anything up to sur days, before being carried to the curring yard where the better types may be rack cured in the shade. The details of the methods of harvesting, wilting and drying have to be carefully studied in each case.

Curing is perhaps the most important operation connected with the production of tobacco and has a great bearing on the ratue of the final product. The producer of Virginia flue cured eigarette tobacco, for example, may get nine annas or more per lb for well prepared first grade lerf but only two annas for the fifth grade and the grading will very largely, although not cutriely, depend on proper curing

There are four principal methods of curing adopted in this country, namely, five curing, rack-curing, ground (or sun) curing and pit curing. More than two thirds of the total erop in India is ground cured Rack curing is estimated at about one fourth and pit curing a little over 5 per cent of the production. Flucturing is as yet only applied to about 2 per cent of the crop

The curing is an expensive process and can only be appled profitably to eigarette leaf. It is an art requiring skill and judgment in entrying out the complicated operations necessary to dry the leaf under artificial conditions. Careful control of temperature and humidity are essential and these have to be modified in the light of experience from one district to another, and from one part of the season to another and also in accordance with the type of leaf loaded into the barn Normally, after the furnice starts working, the euring process falls into three main stages, first, the yellowing of the leaf at a temperature ranging from S5T to 100 F for a period of 30 or 40 hours. The second stage consists of fixing the colour by holding the leaf at about

120°F for 16 to 24 hours During this stage the moisture from the leaves is allowed to escape through the ventilators During the last stage of drying out the leaf, the ventilators are closed and the temperature raised to 165°F. Thereafter the leaf is generally left in the barn over night with doors open so that it absorbs moisture from the air and permits of ready handling the next morning. If the outside atmosphere is dry, water is sprinkled on the floor and the ventilators closed

The methods of curing need further study A lecent experiment has shown that by adopting a sapping system which consists of lapidly laising the temperature in the first stages to hurst the sap cells, the time involved in the process can be considerably reduced so that the quantity handled by a single barn in the course of a season can be increased applicably. The whole process seems cap able of still further modification and improvements

Rack curing is much simpler than flue curing In this case the green leaves are cured on strings tied to posts specially erected for the purpose usually in the shade This method is commonly followed in Madras Presidency for country (Natu) eigarette leaf, cigar, cheroot and snuff tohaccos, in the Bombay Presidency, Baroda and Kolhapur for bidi, chewing and smoking tobaccos . in Bengal for cheroot and hookah tobaccos, in Nizam's Dominions for cheroot and bidi types and in Assam for hookah tobaccos In Burma about 25 per cent of the crop is rack cured. The process commonly followed is for the leaves to be tred to strings two or three vards long. These are then folded and piled on the floor over night and covered during the day After lying for about 36 hours a fairly good yellow colour develops. The strings are then unfolded ar i tied to racks arranged in the open fields where they are protected by a covering of mats When completely dried the leaves are bulked, preferably on a cold dewy LHCAR

morning If it is desired to obtain a darker leaf the leaves are harvested during the heat of the day. They are not bulked but tied to strings and immediately fixed on tacks in the open field where they are allowed to remain to about 13 months. The process values somewhat from one district to another and also needs careful study in detail

Ground curing is the most common method of curing tobacco throughout India generally. The usual process is for the plants to be spread on the ground in the early morning and collected into heaps in the evening. These heaps are turned over occasionally to prevent over heating although it is essential to bring about a certain amount of fermentation. The process is continued until the mid rib is quite dry and the leaf turns fully brown. The process viles according to the type of tobacco and in some cases it may be necessary for the heaps to be sprinkled with water in order to bring about the right amount of fermentation and render the leaves soft and labele.

After curing in mo t of the main areas the leaves are sorted into different qualities—a kind of rough firding—and the eare then bulked by piling the cured leaf in layers into hears. Lete it is allowed to ferment so as to dry out excess mosture and at the same time improve the flavour and aroma.

Reconditioning is a process by which the amount of moisture contained in the cured leaf is artificially regulated. This is applied only to eigarette and pipe tobacco and is considered essential in the production of the better qualities particularly for export. Prior to reconditioning, such leaf is generally stripped by removing about two thirds of the mid-rib. In the process of reconditioning the tobacco is passed through a series of three chambers in each of which the heat and humidity are regulated by that the leaf cuerges in a soft phable condition and contains only 10 to 12 per cent of moisture. It is essential in such cases that the leaf should be packed immediately, preferably in log-sheads.

The methods of bundling and packing vary with the district and the type of tobacco Generally in mixing bundles the leaves are separated in om the stem on a dew morning and put into bundles of about 20 or 30 leaves generally with the best leaves on the outside. The buttends are tied with string or cotton type. The bundles are then packed in guinny sloth stituted to form a bale the weight of which varies obsideably. In the case of eigalette tobacco, packing may be done in guinny bales, wooden cases or hogshelds the leaf in every case

It is understood that it present hogsheads have to be imported from abroad, mostly from the United States of America and as such are beyond the reach of ordinary exporters. It appears to be difficult to obtain even wooden cases. In view of the fact that it is essential to keep the tobacco in good condition till the cigarette leaf matures it would be well if packers were in a position to obtain hogsheads made from Indian wood at a reasonable price.

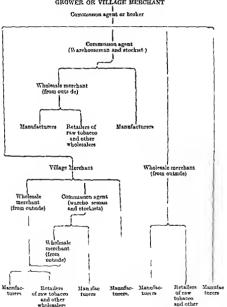
CHAPTER V -ASSEMBLING

A -- Agencies engaged in assembling

In the case of tobacco as in other agricultural commodities. assembling is by far the most important stage in marketing since at this point the grower converts his crop into cash

The following chart shows in a general way the agencies engaged in the assembling and distribution of farm cured tobacen -

GROWER OR VILLAGE MERCHANT



wholesalers

It may be, however, noted that the list of intermediaries is by no means exhaustive and complete, though, in general, the chart shows the channel of distribution of farm cured tobacco for internal con sumption in all the tobacco producing areas of the country

Growers sometimes take their produce to a regular or periodical market or fair for sale. Some of the well to do growers supplement their load by buying produce of their neighborns. Tobacco is, box ever very rarely taken to market by the grower lumself, cheef because there are extremely few regular markets for tobacco in the producing areas. A desire to bave ready each soon after larvest defective means of transport to the assembling centres and the complicated and varying market practices and multiplicity of market charges are some of the other reasons which explain the preference of the bulk of the growers to sell their crop in their own villages.

Villare hanvas and money lenders may buy tobacco from grovers from their own and surrounding villages and sell it to visiting merchants or buvers in a nearby market. They deal mainty in other commodities like grain oilseeds etc and tobacco generally has a minor place in their trade. In Hyderabad and Burma, the local village in new lender appears to play a dominant part in assembling tobacco.

Interant dealers (e.g. pherias and pailars) who go from vulage to village and but small quantities from producers transporting the loads to markets for resale are not found to occupy any place of importance in the assembling of tobacco which seems to be due to the fact that tobacco leaf is particularly liable to be damaged during transform

A major portion of the tobacco crop is assembled by wholesale merel ants and manufacturers who visat the tobacco growing villages and bur through village bannots and mahanan who act as brokers and commission agents. The services of the bannyas and mahajam are availed of in view of the fact that there are possessed of the knowledge of the local crop conditions the men and the customs of the local times. Sometimes the merebants and manufacturers send their agent for making purchases in this manner.

Some of the commercial concerns which manufacture tobacco products like cigarettes and bidis buy raw material from grower through their own special purchasing organizations

Professional curers buy green leaf from the growers for curing though this system is mainly confined to the Guntur Uysore and Bihar areas

Arkatiyas and dalats—In most markets like Nipani, Rangpur, Patgram Muzaffarpur Dalsingsarai Harro etc the commission agents (dalats and arkatiyas) also undertake the functions of warebouseman and wholesale merchant and in the latter capacity may buy tobacco on their own account \(\cdot \) considerable portion of the tobacco produced in India is assembled through dalats and arkatiyas

in their capacity as wholesale merchants. They assemble the bulk of the tobacco crop in Bengal. Bhar, Bombay, the United Provinces, Baroda and Cooch Behar. In Assam, Punjab and North West Frontier Province also the arhatiyas assemble a considerable portion of the local produce. Usually they have large godowns and ware houses for the final drying of tobacco and subsequent sorting and bulking

The part played by co operative sale organisations in assembling tobacco is insignificant as will be explained later

B-Methods of assembling and sale

(1) GENERAL

Unlike other agricultural products the most common method of sale adopted by tobacco growers is to sell the crop in their own villages and it is estimated that four fifths of the crop is disposed of in this manner. The several methods of selling adopted by the growers in various parts of India and Burua may be grouped min.—

- (a) selling standing erop ,
- (b) selling green leaf after harvest to local professional curers
- (c) selling the cured crop in villages ,
- (d) selling the cured crop on contract basis ,
- (e) selling the cured erop in markets and
- (f) selling through co operative sale societies
- (a) The method of selling the crop while it is still standing in the field is common in the Nipan area of the Bombay Presidency, north Bihar and Delhi Province. It is also followed to a smaller extent in other areas. It is estimated that in the Nipan area about three fourths of the growers selling their ciop in this manner while the proportion of growers selling their ciop in this manner while their proportion of growers selling their clope in this manner while their proportion of growers selling their clope on this manner while their or sught estimated at about one fourth to one third. The extent of such sales in Delhi Province is estimated at about two thirds of the total annual crop. In such sales the buyer may take deliver mendal annual crop. In such sales the buyer may take deliver mendal annual crop. In such sales the buyer may take deliver and of his own curing as in north Bihar or the crop may be delivered to the buyer after curring as in the Augan area and Delhi.
- (b) The system of selling green leaf after harvest to expert currer is found to be common only in Gunlur and Mysore areas. In Gunlur, the method is adopted only in the case of Virginia eigarette leaf which is sold by a few growers in green condition to owners of the curing barns. In Mysore, the Virginia eigarette leaf is sold in green condition by the growers to the Missore Tobacco Co. Ltd The system is also prevalent for indigenous types of tobacco grown in the Mysore State and it is estimated that between two thirds to three fourths of the crop is sold in green state by the growers to burers who specialise in curing
- (c) The method of selling tobacco after curing in the village itself is the one most common both in India and Burma. The whole-

sale merchants from cities and towns either visit the tobacco growing tracts themselves or send out their agents during the harvesing season to make purchases of tobacco through the local commission agents. A few of the merchants intimate their requirements by post to their respective local commission agents but the system of visiting the places of tobacco production is more common in the principal tobacco producing areas of Bengai Bombay Madras and Bihar

- (d) Selling of cured leaf on contract is found to be prevalent only in the case of Virginia eigractic tobacco grown in the Gandria area. In this method the growers enter into contract with the Indian I caf Tolicco Development Co Ltd to grow a certai quantity of Virginia eigractic leaf and sell it to the company after curing at varying rates and on conditions according to grades specifed in the contract.
- (e) The proportion of the crop that is sold by the growers in regularly established markets is very small probably not more than 10 per cent This system is generally adopted by the growers who are well to do possessing large areas under tobacco and who are favourably situated so far as the location of a market is concerned.
- (f) The sale of tobacco through co operative sale societies has not gainel any popularity worth the name. The survey indicates there are only 3 co operative societies which handle tobacco in extremely small quantities two in Bombay and one in Madras During 1934 35 the Varna Valley Co operative Sale Union arranged to sell about 3 000 bags of tobacco in its branch at Sangli In the same year the Shri Ganapati Cooperative Sale Shop at Sangh handled about 3000 maunds of tobacco At Nipani, a cooperative tobacco sale society operated for more than 12 years The influence of the local brokers the difficulty of obtaining payments soon after sale and the absence of any system of grading and proper storage facilities were largely responsible for its failure. The Viziavada Co operative Loan and Sale Society in Kistna district of Vadras Presidency also bandles cheroot tobacco but the quantity is almost negligible There seems to be a consensus of opinion that special difficulties exist in the working of tobacco sale societies there being no definite grades and standards for tobacco which makes it difficult assess the value of the material deposited with the society for sale Most of the sales of tobacco are done on cred t with individuals and firms from distant markets and it is difficult to ascertain their position and to judge the extent of credit that may be given to them A husiness of this nature necessarily involves several risks and a number of co operative sale societies which deal in other agricultural commodities do not like to include tabacco in their list Even if they do they are likely to meet with failures under the existing system of marketing unless special precautions are taken particularly with regard to credit transactions and stor age facilities It appears that uniform market practices and introduction of grades and standards are the two most outstanding needs for the development of cooperative sale in tobacco

The methods of assembling and sale differ very widely from one area to another, even in the same province and it would be best to describe these in brief as operating in the principal producing areas

(2) NORTH BENGAL AREA

In the principal tobacco producing areas of North Bengal the growers generally sell their tobacco in a semi dried condition sales take place almost invariably in villages where the produce exchanges hands, generally at the enitivator's holding or curing yard During the harvesting season, buyers from different parts of Bengal, Assam and Burma assemble in the producing area and with the help of local dulais, many of whom own spacious warehouses for the final drying of the leaf, it's sorting bulking and packing go from village to village, inspecting the produce and making purchases These buvers, particularly those from Burma stay with their dala's during their purchasing period Sometimes the local dalals themselves make purchases on their own account. Samples are drawn from the bulk of the tohacco crop and inspected by the huyer with the help of the dalal If the sample is approved of by the purchaser, the whole bulk is then generally examined to see if it conforms to the sample If the lot is approved by the buyer he offers his price to the grower under cover The buyer or the datal on his behalf clasps the hand of the grower under court of a cloth and offers the rate hy making signs on the palm of the nand of the grower If the grower accepts the offer the hargain is settled but the price is not declared openly After weighing the produce is carted to the godown of the dalal where it is further dried graded and packed in accordance with the instructions of the buyer A major portion of the price is paid to the grower at the time of gelivery of the produce, the halance being paid afterwards. The local dalal who is generally known to the grower stands guarantee for the payment

(3) CHAROTAR AREA

In the Charotar area of the Bombay Presidency the growers sell all their tobacco in their own villages. In fact, the curing yard in the fields is usually the place where they dispose of their produce almost as soon as it is reach. Occasionallt they have to wait for the customers for some time or in a few cases they prefer to postpone the sale in the expectation of better pinces. In such cases, the produce is carted to their houses for storage.

Since the quality of produce varies from village to village and often from field to field the upcountry merchants—who buy large quantities, usually prefer to visit the tobacco areas themselves or make purchases through their representatives. Sometimes there is such a variation in quality from field to field that some of the upcountry merchants are often anxious to purchase the produce from certain selected fields year ifter year. These upcountry buyers arrive sometime during January to May and stay with their local dalals. These dalals in most cases are shrewd and experienced men possessing detailed information about tobacco crop in the

surrounding villages long before the crop is ready. Most of the villages in the Charotar area have one or more sub datals each, who are in most cases, themselves tobacco growers. The dalals mentioned above are not only mere commission agents, but several of them possess tobacco processing factories and they make purchases on their own account in inticipation of orders from outside buyers. A few of them have their own shops and bids factories even in other provinces. In the usual course the dalats arrange purchases through their respective sub dal d. in villages. When the tobacco is ready for the market the dalals rapidly move from village to village where they meet their respective sub dalals who take them round from one field to another The samples of produce are inspected and in case the dalals or the upcountry buyers are agreeable to purchase, the sub dolal takes ju tation from the grower under cover (see plate facing page 166) This is done in the same was as in Bangal The rate asked tor by the grower is then communicated by the sub dalal to the dalal again under cover. The dalals are anxious to preserve secreev in the hope of getting better prices from the likely upcountry buyers. Under the circumstances the sub dalal alone kn we the exact situation in his village, and he is therefore the man who holds the balance and is able to a certain extent to secure favourable terms for the dalal on the one hand and the cultivator on the other according to his own personal inclinations and intere t. In most cases, however the sub-datats are anxious to please the dalids in the expectation of getting greater patronage

After the purithests are made the dalals generally send indourers with bars, for picking the produce. If the labourers are not sort in the dala' the sub-dalal art mays for them. The charges for picking in diviring are pull by the purchaser. When the bags are filled and studied they are weighed by the sub-dalal in the presence of the entireator who renders help in weighing. The bags are then transported to the godowns of the dalal (see plate facing page 189) or dividly to the railway station for being despatical to the upcountry merchant as directed by the dalal. Usually, however the bags are despatched directly to the upcountry merchant only when they desire to have tobacco powder in the form prepared by the growers. In a majority of cases however they prefer the dadals, to prepare different quality maxtures by further draing and sieving in which case the large are carried to the dalal's fastories where to be too is setted and different quality maxtures, prepared according to the requirements of the upcountry merchant (see plate facing 1929 177).

V few growers sell their standing crop usually to other big growers or sub datals in their village. The practice is, however, not at all common. In such cases, the entitiator has to harvest the green leaf and deliver it at the curing yard of the purchaser. The sales are made a few weeks before the crop is ready for harvesting. The risk of any damage to the crop during the interval due to frost or untimely rain has to be borne by the entitivator, and in such each the contract becomes until and void. The grower is also responsible for loss due to theft from the field.

(4) NIPANI AREA

The practice of selling the erop while it is still standing in the field is the one most common in the Vipani area. It is estimated that about three fourths of the tobacco prowers of this area sell standing crop when it is about to be ready for harvest. The purchasers are Vahars (an important section of the Harisan community in the Bombay Presidency) and petty merchants. No written agree ments are made. In some cases the crop is purchased for a lump sum but the practice of fixing the rate of the estimated produce is getting more common The price is almost invariably paid after the produce is sold by the Vahars or the petty merchant The Makars generally take the tobacco purchased by them to the weekly marl et at Aspans filled in whots (improvised bags made of kambli or coarse woollen blankets) or bhods (bars made by statebarg two old gunus bags) These tobacco paclages are then arranged for sale in the open space allotted by the local municipality for the weekly bazaar The proportion of the farmers who bring their produce to this weelly market is very small. The sales at Nipam are made through dalats. Some of these dalats act as commission agents for the upcountry buyers and in that case they are known as "arhatiyas". It is important to note that most of these people act both for the sellers and the buvers in different transactions

These dalals and the outside buyers attend the weelly market examine the produce from the sample packages and try to make purchases by private treaty negotiating over the prices with individual sellers. After the purchases are made the tobacco packages are carried by the seller to the godonn of the dalal where they are weighed and paid for Disputes at the time of weighing are very common as all the packages are not individually weighed and the weight of the total consumment is based on the weight tallen of a few sample packages The quants of the produce in all the packages is then compared with that of the sample package and in many cases there are disputes about the quality of the produce contained in different packages These disputes are usually adjusted after higgling although the seller is at liberty to cancel the transaction. The seller however rarely does so my two of the difficulty of finding a new customer or in the alternative to wait till the next bazaar day that is a week after. It is reported that these disputes are more common during days of falling prices

The petty merchants buying standing crop from the growers do not tale their produce to the weel Iv bazaar at \u2213jani. Thei usually sell their tobacco to apcounter buyers through dalcis by private negotiations. In cases where this is not possible the produce is sent to the dalas who then arrange for sale.

The remaining farmers sell their tobacco crop after curing Here again the petty village merclinit may be the buyer. In other cases the produce is sent to datats for arranging a vale. In most, of these cases the growers have taken loans from the datats to whem they have to send their tobacco in the normal curies for sale.

When the petty merchants or growers send their tohacco to the dalats for sale a rent of 8 annas per month per cart is charged by the dalat for stoing the pac'ages in his godown. The dalat then arranges for the sale at a price agreed upon by the seller

At Sangle chura or angad (tohacco powder) is sold by open auction The growers and petty merchants from villages take their tobacco packages to their respective dalals at Sangli where the pack ages are arranged in the dalal's godown in lots each lot representing the produce of one seller Every day during the tohacco season all the purchasers and dala's assemble at one place and then go from shop to shop where each lot belonging to an individual seller is auctioned separately The shops are visited by turns and serially On one day the nuction begins at the westernmost shop of the market and proceeds eastwards. Next day it begins at the eastern most shop and proceeds towards the west If on any day all the shops cannot be finished (this happens during rush periods of the season) the auction is commenced at the point where it was stopped on the previous day Most of the pacl ages kept for sale are opened for inspection if so desired by the buyers. When the huyers arrive at the shop the datal shows them the several lots offered for sale and then takes open bids. The highest bid is accepted provided the seller agrees If he does not then his lot is again offered for sale the next time the dalal's shop is visited by purchasers. But once the highest bid is accepted by the datal on behalf of the seller the latter cannot cancel the hid. At the time of giving the hids it is understood by the purchaser that he has to take all the packages in a lot if his bid is accepted. The buyers leave the shop only after all lots offered for sale in that shop are auctioned. The time for the auction is fixed from 9 AM to 3 PM

(5) GUNTUR AREA

In the Guntur area of the Madras Presidency, almost all the sales take place in villages at the curing yards except in the case of growers who sell on contract to the Indian Leaf Tobacco Devel process of the contract to the Indian Leaf Tobacco Devel process of the Contract with the district under which the latter are bound to calculate growers in the district under which the latter are bound to calculate growers in the outract the curing the factor of the contract the contract the factor of the factor of the contract the supervision of a mustri in the company's premises the latter case the charges for the mistri's services are deducted in the contract form process the charges for the mistri's services are deducted for the factor of the factor o

of competition from other huyers and the high prices prevailing for Virginia flue cired tobacco

There is much to be said in favour of the contract system as lending stability to prices and an assured market to growers at the time of planting. On that account it is worthy of extension. In points of detail however growers claim that there are difficulties in the present system The company s representative for example is the sole judge of the grading standard adopted by the grower as specified in the contract form. This naturally cause, some dissatisfaction among the growers very few of whom are reported to have had the experience of their lots being accepted without regrad ing Although in cases lile this differences of opinion are bound to occur a system of sale which will have a common medium of understanding hetween the seller and the buver under an impartial and expert guidance would certainly be an advantage moderate minded growers who have a long connection with this system have expres ed difficulties in having their grades accepted and have shown a desire for expert grading on impartial standards One grower with an intimate I nowledge of the working put the whole problem in a nutshell by saying that curing is all right hut grading is never all right. However it by no means follows that the contract system is worling to the disadvantage of the growers tobacco trade which has added so greatly to the prosperity of Gantur district owes a large share of its ex stence to the system of purchase adopted by he Indian Leaf Tobacco Development Co and all that can be said is that the grower has some reasonable complaints to make against the existing system A fuller examination of question requires consideration of the vital issues regarding the price abroad and the proportion of it that goes to the grower this point full facts have not been disclosed but such evidence as can be gathered shows that the grower is getting prices ranging from 11 annas to 7 annas for tobacco leaf which sells at 4 annas to Re 1 2 0 per lh in the foreign markets that is from 30 to 40 per cent a point for consideration

In addition to contracts entered by the Indian Leaf Tohacco Development Co some local merchants from Guntur enter into oral and written contracts for purchase of ungraded leaf at specified prices but such transactions are only small and occasional

In the case of other buvers the Virginia leaf is generally bought in villages in an ungraded form. The buying merchants tour from village to village a broller baving been sent in advance. At the grower is place leaf bundles are opened and examined layer from one side. This operation is called Passing Depend layer from one side. This operation is called Passing Depend layer from one side. Simple and on the prevailing market rate the bug on the quality of sample and on the prevailing market rate the bug on the profess an offer which is never accepted immediately. It is buyer makes an offer which is never accepted immediately. It is buyer makes an offer which is never accepted immediately. It is the profession of the consent of the buyer and arranges for the carting of the with the consent of the buyer and arranges for the carting of the with the consent of the buyer and arranges for the carting of the with the consent of the buyer and arranges for the carting of the with the consent of the buyer and arranges for the carting of the with the consent of the buyer and arranges for the carting of the with the consent of the buyer and arranges for the carting of the with the consent of the buyer and arranges for the carting of the with the consent of the buyer and arranges for the carting of the with the consent of the buyer and arranges for the carting of the with the consent of the buyer and the profession of the profession of the buyer and the

negotation and never by auction. After the leaf bundles are carted to the godown of the buving merebant some reduction in prices is always made on the ground that the general quality is inferior to the one seen at the time of setting the bargain. If the market is brisk, there are generally no dispites at the time of delivery and all buvers, become less rivorous in the examination of tobacco bales brought to their godown by the grovers.

The sun cured country tobacco in the Guntur area is generally purchased in ungraded form. If the Indian Leaf Tobacco Development Co want to buy this type of tobacco the growers carr the leaf burdles to the company's depots, where they are examined and the purce offered if the price is accepted by the grower the bargain is settled otherwise he is at liberty to take back the tobacco. Other merchants tour irom village to village examine the bundles fix the price generally through brikers and arrange for carting the material to their godowns at their own expense.

There is a small market at Gun ur comprising about balf a dozen adjoining godowns where the growers can stock their tobacco buildles and effect sales through the godown agents. The prices are fixed on the Passing of bundles by viving merchants by private treaty but such sales are extremely lew and during the last three years practically none bave taken place in the case of Virginia flue-cured tobacco.

The buggest single assembling an purebasing organization in the Guntur area i the Indian Leaf Totacco Development Co who bave an extensive organization with 9 branches in the district and a central depot for warehousing at Chirala. The company also makes advances to curers and owners of barns in the district and also distributes seedlings of Virginia tooacco to its contracted growers been in importance are the exporture merchants at Guntur dealing in country and Virginia tobacco. There are about balls dozen large firms envaged in this business in addition to 10 scaller ones.

6) NORTH BIHAR AREA

In the North Bihar area about one fourth to one third of the tobacco crop is sole by the growers while 'is still standing in the field. The purchasers are usually local well to-do cultivators who specialise in the curing of obacco and who are also mercanist. The price of the standing crop is fixed in terms of Intla (122 acras) As a rule no a Ivance are made to the grower. In some case sold 20 to 2) per cent of me price may be just to the grower on settlement of the bargam but generally 'le prices are paid after the curing its settled. In case the crop is damaged while still standing in field or there is a los on second of pitteriar the price i reduced by the burser.

Almost the whole of the remaining ero > is sold by growers after earing in their own villages and holdings, to buvers who go round from village to village thring the marketing season to make purchases

with the help of local commission agents. After purchase the tobacco bundles are carried to the godown of the local agent who pays the grower within about 10 to 14 dats after the delivery of the produce. The purchaser is usually required to deposit with the agent about 20 to 60 per cent of the value of the produce in accord ance with his credit. The balance is realised by the agent after consignment of the goods to the buyer by sending the railway receipt by value payable post. In ease it is not accepted by the buyer the deposit is considered to the forfeited to the agent and the railways have instructions to rebool the parcel to the agent.

A few grawers specially those situated near a market town take their cured crop to the market where the sale is effected through commission agents (arhatiyas). The commission agents them elves may but the tobacco if the grower is agreeable to the rate offered by them. Sales in mailets are very few is compared with those that take place in villages.

Whenever the dest tobacco leaf is r quirel for the limitate tree of cheap eigarettes manufacturing buvers make purcha es by call ing for samples in the first instance r send out men to villares to inspect the produce on the cultivators holdings and take samples and After inspecting the samples the prices are offered by the buyer and after inspecting the to the price the produce is earned to the huyer s godown where it is weighed and the payment made immediately in each

(7) OTHER AREAS

In the United Provinces also the bulk of the produce is sold in villages either to the local merchant or village banija or outside buyers who go from village to village during the marl eting season In markets like Farrukhahad well to do growers and village mer chants take their produce direct to the kachcha arhatiya with whom it is kept in store until sold. The kacl cha arhatiya not only stores the produce but also acts as weighman and arranges for the disposal of the produce through other commission agents arkatijas are licensed by the Farrukhabad Municipality and pay Rs 12 per annum as licence fee Sometimes the same man performs For instance the Lachcha arhabiya may work as a commission agent and a broker as well An isolated example of a few grovers joining together for the purpose of sale in a market was observed during the cour e of marketing enquiries at Bhongron in Mainpini district where the growers were found to send their produce jointly to a commission agent at Muzuffarnagar for sale Cigare te tohaceo grown round about Saharanpur and Jhansi is sold by the growers to cigarette factories by private negotia tions but generally after sending samples

The largest part of the local production in the Punjab, and the North West Frontier Protince is sold in villages to big wholesale and retail dealers through the village banyas and the data's For and retail dealers through the village banyas gets commission from the buyer. If his services the village banyas gets commission from the buyer and the gets anything from the seller, it is tobacco but this gift is quite

optional When the sale is effected through a dalal who operates in markets and who goes round from village to village with purchasers a commission is given by the buyer to the dalal who gots nothing from the seller except a changi (gratiuity) of 1½ to 3 sees of tobacco A small quantity of tobacco is given by the seller also to the village barnya who acts as a weighman Some of the glowers round about hig markets sell their tobacco in markets to or through the local commission agents

Hazro in Attock district appears to be the only market in the Punjab where a regular market exists for the sale of tobacco In all other markets transactions in tobacco are settled at the shops of individual commission agents At Hazro there are 6 markets, all owned privately The proprietors of these markets bave formed a pool and in accordance with the rules of the pool, these markets are divided into two groups of three each. One group sells the produce in the morning and the other in the evening of the same day The group that operates in the morning on one day works in the afternoon the next day Sales are made to local wholesale buyers who are about 150 in number and who further distribute the produce by exporting to merchants in other towns. Most of the tobacco that is assembled at Hazro is from the North West Frontier Province, and majority of sellers are small merchants and dealers who have purchased tobacco in villages Some of these dealers are them aclves growers

In the Nizam's Dominions, tobacco is mostly sold in villages to the local money lenders or sakukars. The payment is made either m cash or the ale proceeds may be adjusted against any loan that might have been taken by the grower from the money lender The village money lender collects the produce from the villages around him and sells it either in the local weekly markets or to wholesale dealers in a big assembling market where the sale is effected through an arhatiya or commission agent A few well to do growers from near a big market also take their produce for sale in the market through the commission agents. In the southern tobacco area of the Mysore State curing of tobacco is almost always done by professional curers who also happen to he village merchants or brokers Some of these village merchants themselves grow some tobacco The producers sell the green leaf about a fortnight or a month before it is ready for harvest. The prices are fixed on the basis of the number of plants The village merchants or brokers buy the green leaf in several villages cure it and then sell it generally to wholesale merchants at Ravandur which is the most important assembling centre in the southern tohacco area of the State Similar are the practices observed in the northern tobacco area of the State, in the case of at least half the produce, the other half being cured by the growers themselves
The cured leaf is then sold by the growers through commission agents in markets like Sira and Goribidnur Some of the growers also sell the cured leaf to the village merchants Sira is the most important assembling centre in the northern tohacco area of the State where the tobacco leaf is sold on weekly fair days by auction and on other days by private negotiation

(8) BURMA.

The bulk of the tohacco growers in Burma take advances from the local moneylenders against the tobacco erop lenders may be hrolers wholesale merchants or even the cheroot manufacturers In granting a loan against the tohacco crop the money lenders create—as a first condition—a lien on the crop in their favour The rate of interest also varies from one individual to another In the case of small tenunt cultivator the loan is usually on a hee pe hass the amount borrowed heing converted in terms of tobacco deliverable after harvest at a stated price repre senting approximately from balf to three fourths of the price paid for the crop of the previous season Immediately after the tobacco is cured all the indebted growers deliver the leaf to their respective moneylenders in accordance with the conditions under which they might have taken advances

The money lenders and a few growers who do not pledge their crop sell the produce generally in villages to big wholesale merchants and manufacturers who go from village to village It is customary for the e huyers to make purchases through local brokers who in turn employ a number of village brokers For their services the local and village brokers get com mission from the buyers For the remaining produce the hrokers m assembling centres like Mandalay and Rangoon offer a channel of disposal The tobacco sent to them for disposal is stored free of charge until bnyers may be found In the absence of buyers at the assembling centres at the time when the grower or trader sends his produce there are two courses open to him one is to leave the stock with the broker with instructions to sell it later at a specified price and the other is to sell it outright to him in his usual alternative espacity of a wholesale merchant. In the first case it is usual for the seller to get advances from the broker against the stock left behind The amount advanced however is seldom more than half the value of the stock at the current price and interest of 2 to 3 per cent per month is usually charged for the loan In ease it is agreed to sell the tobacco to the broker it is the usual practice with the brokers to pay from Rs 3 to Rs 5 for 100 cass below the current market rates

C -Marketing charges

(1) GENERAL

Tobacco as a rule passes through several hands before it actually reaches the manufacturer or consumer and expenses are incurred at different stages in the proces of assembling and sale of growers tobacco In all the tobacco growing tracts the market charges are levied either on the basis of weight or on the prices realised when the grower sells his tobacco in his own village his market expenses are by no means small in all the areas for example in the Charofar area where almost invariably sales of grower's tobacco take place in villages, the average cost of marketing incurred by growers in accordance with the farm economics investigations con ducted by the Bombay Department of Agriculture in 1934 35 to LHCAR

1995 37, comes to about Rs 1 100 per maund It may be significant to note that in accordance with these investigations the average outof pocket expenses of the grower on the cultivation of tobacco, i.e.,
on material, equipment, land revenue and rent, bullock labour,
hired manual labour and marketing services came to about Rs 69
per acre out of which the cost of marketing alone amounted to about
Rs 12 per acre or 18 per cent of the total

The market charges for the various items, which will be discussed later vary not only from one district to another in the same province but also from one commission agent to another in the same market. It is only at the bigger markets like Aipani and Guntus that the commission agents levy charges which are com paratively uniform But even in these distinction is made between the well to do growers and other cultivators because the former visit the commission agent's shops more frequently and the commission agents are more anxious to leep their custom by charging them more equitably The market charges are payable both in kind and cash In most areas the grower as a rule has no correct knowledge of the numerous deductions in gross weight and prices which are made in the various markets mainly by usage Apart from the fact that there are extremely few marlets where the grower can take his tobacco for sale one of the chief causes as to why the grower prefers to sell his tobacco in his own village is the multiplicity and com plexity of market charges found in all principal tobacco producing areas

The main items of market charges are (a)-commission or broker age, (b) weighing charges (c) charity (d) allowance in weight, and (e) discount for each parment. The commission is the renumeration of the commission agent who is called dalat or arbiting or additing an indirecent locatives. His function does not appear to be clearly defined so far as the tobacco trade is concerned. More often he combines in bimself the functions of a broker, commission agent, warehouseman and wholesale merchant. The commission is payable usually both by the seller and huyer. Charges for weighing tobacco are invariably paid by the seller usually in cash and sometimes in kind.

In all the areas a charge is levied on account of charity in one form or another. It goes under different names in the various parts, for example diaramadina dharman, thathony, goushala, panta pole, pathishala, anathalaya, etc. The purposes for which charities are collected may appear to be laudable but it is highly problemated whether they are fully inthised on the objects for which they are collected Besides the parties who make the payment towards charity do not appear to gain any advantage from it nor do they have any band in the distursement of the charity fund Charity is usually collected in eash from the seller or buyer or from both.

At the time of making payment for the sale of his produce to the seller, it is the custom in many markets to deduct a discount from the total sale proceeds before payment is made to the seller. The amount of this discount may be as low as 4 to 6 annas to as high as Rs 15 for every Rs 100 of the gross sale proceeds. There are several deductions in weight which go by different names in various parts of the country. In addition, there are several other miscellaneous charges, like the Vierchants' Association Fund and Board my House Fund at Alpan, paghads or gift in the Charolar area, busian and dudhkhoua in Bongal, etc. These market charges are extremely variable from one province to another and in many cases complicated. As such there is no comparison between the market charges are with those of another. Under the circum stances it would be advisable to discuss in brief the system of levying market charges from the sellers and huvers in the principal producing areas.

(2) NORTH BENGAL AREA

In this area, the dold who arranges the sales in villages gets a commission only from the buyer but nothing from the seller. The rate of actual commission charged to the huver depends on his relation with the dold. From the Burmese huvers a commission of 6 annas per maund is charged. The Burmese buvers are generally provided by the dold with a separate house to live in addition to many other privileges. Besides they get from their respective dolds some cash present at the time of leaving the producing area, and this may amount to 1 to 2 annas per maind on the purchases made. In other cases the rate of commission is 4 annas per maind including free hoard provided by the dold to the huving merchants. In cases where the buyers have purchased direct from the growers and are annous to store their purchases with the dold for a short time before despatch, a commission of 2 annas per maind is charged which then virtually becomes a storage charge.

The grower as a seller, however, has to pay several allowances in kind to the buyer The normal unit of sale is usually a hulk of tobacco weighing about 20 mainds. The seller has to give to the buyer a sample of 3 seers which approximately comes to about 2½ chhatanhs per maund If the huver purchases the lot the sample is allowed to he retained by him free of cost At the time of weigh ing, a few hundles about 5 seers in weight are taken out for the ling, a few hundles about 5 seers in weight are taken away by weighman to sit on. This is called bassari, and is taken away by the buyer free of charge An allowance for shrinkage in weight (dhalta) is taken by the bover and this amounts to about 20 seers for every 20 maunds At the time of the delivery of the produce the huyer usually does not take away the tobacco stock purchased by him, until some extra leaf is given to him free This extra leaf varies from one huyer to another and also from one grower to another and is called hat tola which means an offering at the time of delivery of the stock Again at the time of final settlement of accounts and payment to the grover, the huyer demands a present called mangon or dudh khoua This is usually calculated at about 2 to 5 per cent on the gross value and deducted from the sale proceeds due to he paid to the grower

(3) CHAROTAR AREA

The number of market charges in this area is not only large but also complicated A maund in Charotar normally consists of 40 local seers of 1 lb each The market charges incurred by the grower consist very largely of allowances in lind. At the time of weigh ing 1 seer per bag is taken as naman or greeting. While weighing the fractions of a seer are ignored. Two seers are deducted as weight on tare (bardana th ugh the actual veight of the gunny bag ranges from 14 to 13 seers. After filling in the bags an odd quantity left over from the heap of the grower's tohacco is taken away as sample After making ill these allowanees the weight is then calculated and this becomes kachcha weight. The weight in pakka maunds is then calculated from the Lachcha after maling further allowances for the different types of tohaceo For Lileo tobacco a maund is taken to be equal to 421 seers for Lal 43 seers and for leaf bundles Khakra and Khutan the maund may be taken at anything between 45 and 48 seers though the actual local maund is only 40 seers. It is from these varying weights of a maund that the pakka weights are cal culated from the kachcha weights. The extra weight is reported to be taken on account of possible shrinkage. After calculating the pakka weight a further deduction in weight is made at the rate of to 1 lb per local maund Loss due to possible leakage in transit is considered to be the justification for the origin of this labh. The total value of the tobacco is then calculated for the final pakka weight at the settled price From the figure of this value, the following deductions are again made -

(i) Vatav -The origin and the significance of this will be discussed later but it may be stated at this stage that the ratav was intended to mean a discount for making cash payments to the grower immediately after sale Immediate payments to farmers for the tobacco weighed out by them are however, practically unknown in the Charotar area. The village sub dalal gives an undertaking to the grower of paying the sale proceeds within a specified period which may extend to any where from one week to six months or even more in rare cases It appears however that in a majority of eases paymen's are made within about a month ever vatav is now taken from all the growers irrespec tive of the period that intervenes between the sale and payment The rate of this discount varies from 2 to lo per cent in different villages and also from one year to another in a few villages so that in extreme cases the growers may have to pay as many as Rs 15 on account of discount for every 100 rupees worth of tobacco sold by him This discount is shared between the village sub dalal the local dalal and the buyer The village sub dalal usually gets one per cent of the value of the produce as his share of vatav, while the amount of the share of the vatav given to the buyer depends upon the promptness with which he makes pay ments for his purchases

For making the payment in cash within a specified period the bujers are allowed a certain discount which finally has to be paid by the seller. If the payment is made by the huyer within 4 days after delivery be is allowed 4 per cent discount and if within 15 days 3 per cent. If he pays within 2 months a smaller discount may be permitted but if the payment is made after 2 months no allowance is given

In addition certain allowances are given to the buyer. Two seers are deducted for every eart load of tohacco. Further 2½ sees per bag are allowed on account of tare and moisture. If the tobacco is peaked in blots thus deduction is 5 seers. If the tobacco is stored in loose condition and is reasonably dry only an allowance for tare is made and not for moisture at the rate of 1½ seers per bag and 3 seers per blot.

(a) GUNTUR AREA,

The rate of brokerage for village sales in the Guntur area varies from one rupes for Country tobacco to two rupees for Virguna tobacco per candy of 500 lb the exact amount varying with the individual and his relation with merebants and brol ers. In addition most of the villages have got their own mamouls and charites the rate of which varies from two to four annas per candy. Many purchasers are reported to make deductions at the time of weighing to the extent of 10 lb per candy and also charge 4 annas per candy for weighing though the practice is not uniform. If the grower brings his leaf for sale in the Guntur market which consists of 4 or 5 adjoining godowns as explained earlier the following charges are taken for every candy of 500 lb of Country (Natu) leaf—

	Rs	A	P
Commission to godown merchant	1	0	0
Unloading charges	0	1	0
Arranging for inspection	0	1	0
Samples about 2 lb	0	2	0
Charity aid temple	0	3	0
Weighment	0	1	0
		_	_
Total	1	8	0

(6) NORTH BIHAR APLA

When standing crop is sold no marketing expenses are incurred by the when the grower sells his crop after crining on his own-holding, he has no specific marketing charges to pay. It is understood how ever that the purchaser takes much more by manipulating at the time of weighing Weighing of tobacco in villages is done on dhari basis 4 dharis making one local manual. The weight of a dhari varies from one area and village to another and even in the same village the purchasers change the weight of a dhari in accord ance with the mosture contents of the tobacco leaf. Ordinarily the

weight of a maund is 40 seers one seer being equal to 80 tolas But the weight of the local mannd of tohacco taken by the buver from the grower generally varies from 52 to 56 seers or sometimes even 60 seers In addition the weighman takes a considerable amount on the pretext of keeping the count of weighment For every maund of tobacco leaf he leeps away one bundle of leaf which he takes as his remuneration for weighing. The weighman besides gets from the purchaser about a seer of tobacco per ganth (a hundle weighing 4 maunds) The purchaser has to pay for the boarding expenses of the dalal or arhatiya during the time the former is out with the latter in villages for making purchases Besides the dalal or arhatiya gets from the buyer 2 to 3 seers of tobacco and a commission which though not fixed comes to about 2 annas per maund

With regard to sales in markets like Patna and Dalsingsarai it appears to be the custom in most markets that the dalat receives com mission both from the buver and the seller At Dalsingsarai for example the rates of commission paid to dalal are 3 pies per rupee by the seller and 3 pies per rupee by the buver Three pies per maund are charged for weighing to the seller. In addition there are 2 types of charities One anna per transaction or per Rs 100 of the value of transaction is charged both to the buyer and seller on account of goushala Charity on account of pathshala (school) is taken at 6 annas per transaction from the seller and one anna per transaction from the buyer Similar are the market charges in other assembling centres with small local variations

(7) OTHER AREAS

In the United Provinces the market charges at Farrukhabad are as below -

- (1) Allowance in weight of chhoot-1 seer per local maund of 5a seers
- (n) Unloading charges—2 annas per cart
- (m) Weighing and commission-6 pies per rupee
- (w) Muddat (discount)-21 annas per hundred rupees (v) Writing charges to Munshi-1 anna per consignment
- (11) Charity sweeping etc -1 anna per cart
- (in) Tari thari or allowance in kind to kachcha arhatiya-1 to 1 seer per cart

In areas like Jaunpore Agra Jhansi Badaun Bareilly Meerut, areas the Jaunpore Agra Janans Datasin Foreign in their experience the buyers purchase directly from the growers in their villages through the local commission agents the market charges con ist almost entirely of brokerage or commission sion charges were found to be 8 annas to 1 mpee per hundred rupees at Agra I anna per maund at Jhang 2 annas to 4 annas per maund at Produce at at Badaun 1 rupee per hundred rupees at Barelly and Jaumpore and 6 pies per rupee at Meerut In addition the growers always give a certain quantity as dhalla or allowance in weight according to the to the customs prevailing in different parts of the province. This extra weight varies from 1 to 10 seers per sale

In the case of village sales in the Paujub, the village banus or dalad who effects sales insully gets 3 to 6 pies per rupee as commission from the buyer. The seller is not required to pay anything but generally be gives 1½ to 3 seers of tohaceo by way of gift to the village banuja or dalad. In the Hazro market the seller pays a commission of 2 annis per maind. The buyer also pays the same rate of commission and in addition 3 pies per maind on account of charity. In other markets of the Punjab the charges vary from one place to mother. It some mathets mark et charges are recovered only from the seller while in others both from the buyer and the seller. The charges also vary in the same market from one commission agent to another. Thus in Lahore, while some commission agent to darge 3 pies others charge 6 pies per rupe as commission to the seller. The following are the market charges at Fercozepir.

Paid by the seller

- (i) Commission—12 annus per maund
- (11) Weighing charges-9 pies per maund
- (n) B of erage—6 pres per maund (n) Dharman or charits—6 pres per hundred rupees
 - (v) Discount for each payment-3 pies per maund
- (ii) Terminal tax—4 annas per maund

Paid by the buyer

- (i) Commission—11 annas per maund
- (11) Brokerage—6 pies per maund
- In the Vorth West Frontier Province the seller pays to the commission agent a flat charge which is locally called dhardt and which covers all miscellaneous marie charges like commission weighing and storage charges. This charges the commission weighing and storage charges to the credit chaings of the seller with the commission agent. If he takes an advance of money from the commission agent he pays I rupee per mained as dhard in other cases the rate of dhard is 8 annas per mained. The burer pars I ama per mained (10s lb) as weighing charge and nothing more.

 charges are 2 annas per transaction while the charity charges come to half the amount paid for rusoom Weighing charges are 3 pies per bundle or 4 annas per cart Besides a cash discount is also taken from the seller In case the sale proceeds have to be paid immediately this cash discount is chirced at the rate of 8 to 10 annas per cent which goes to the commission agent if the baver does not pay the amount within 7 days. If the buyer makes the payment within the stipulated period of 7 days, he gets the lenefit of the eash discount .

(S) BUPMA

In the village sale it is customary for big buyers to make purchases through local town brolers of the production are a and these in turn employ a number of village brokers. From the buver the town bro'er gets brokerage at the rate of sannas ner halred test This he shares with his village brokers. The seller has to pay In markets like Mandalay the rate of br serace 1 1 rupee per basket (100 to 110 tiss) to the eller and S annas to be burer In Myngran brokerare is Rs 1 s 0 to Rs 2 per has et pavable by the seller The buver pays nothing

(9) SUMMAPY

The statement in Appendices LIX and LX hows to average market energes (excluding the cost of packing and transpor) as paid by the ellers and buyers for every hundred rupes wor h of raw tobacco sold in (i) villages and (ii) markets The following floures show the average total merchandising charges in the five principal tohacco producing areas of India -

Average total market charges per hundred rupees worth of raw tobacco in the principal producing areas

	\ \ \		/ipani	Guntur		North
_	North Cha	Charotar		\ irona	١a	Bihar
	RS A F	Rs a P	RS A P	Rs A P	RS A P	R* A P
Fillage Sales—	1	ļ		3 5 6	1 12 6	0 13 9
Paid by seller	5 6 0			•	1	1173
Paid by buver	2 6 0	0 10 0		3 8 6	4 17 6	° 10 °
Total for sale in villages	PC	15 3 0				
Sales in Market -		Ĭ		9 1 0 1	b (3 5 10
Pard by seller	1	1				a 8 9
Paid by buyer	1	1	1 1.	6		2 14
Total for sale in market	×	1	10 6	1 1 0	1	

It is obvious that the highest market charges are incurred in the Charotar area followed by the Nipon area. In village sales the grower in the Charotar area pays in kind and cash nearly Rs 15 for every hundred rupees worth of tohacco sold by him and in a few cases this charge may even exceed Rs 20. The marketing expenses incurred by the growers in the North Bengal and North Bihar are not 38 per cent and 6 per cent respectively of that paid by the Charotar grower. In the Ginhur area, the grower's market ing expenses per hundred rupees worth of tohacco are Rs 386 for Varius when sold in villages as against Rs 404 and Rs 570 respectively when sold in the Guntarmarlet.

It is clear from the figures given in Appendix LIX that m village sales apart from Burma the lowest expenses are incurred in the North Bihar area where the total merchandising charges for every hundred rupees worth of tohacco come to only Rs 2100 as against Rs 13.30 in the Charotar area Rs 11.40 in the Delin province Rs 712.0 in the Vorth Bengal area Rs 412.6 for Natu tobacco and Rs 38.6 for Virginia leaf in the Guntur area and about Rs 2 11 0 m the United Provinces and the Punjah In the Charotar area over 52 per cent of the marketing expenses are incurred in respect of several allowances in weight and another 43 per cent in respect of discount both paid by the grover The buyer therefore pays hardly 5 per cent of the total marketing expenses. In the Delhi province the value of allowances in weight comes to 7 5 per cent of the gross sale proceeds as against 1 per cent or less in the United Provinces and the Punjab and 2 to 25 per cent in the Guntur and North Bengal areas In North Bihar, there does appear to be a regular system of giving allowances in weight though it is reported that the buvers take larger quantities by the manipulation of weights and scales Commission appears to be charged to the growers only in Guntur and the United Provinces while the buyers are charged commission in North Bengal, Charotar, North Bihar Punjab and Delhi In Burma the marketing expenses in village sales appear to he the lowest and consist of commission charged only to the buyer

With regard to sales in mariets the merchandising expenses in the Nippen area are the highest heing nearly 12.5 per cent of the gross sale proceeds out of which over 10.5 per cent are paid by the seller Allowances in India account for a little less than half these charges while commercion and other allowances to dalds account for over one fourth. In the Ginntur market the total charges come to 4 to 5.5 per cent of the sale proceeds all paid by the seller commission ringes from 1.4 per cent in the case of Virginia to 2.3 commission ringes from 1.4 per cent in the case of Virginia to 2.3 expenses come to a little less than 6 per cent for the sale proceeds of which over half are paid by the seller it is noticeable that in spite of the fact that the Punjah now to the sale proceeds of the fact that the Punjah now to 1.1 per cent in important tobacco producing province the marl eting expenses come to Rs 1011.7 per hundred rupees out of which the seller pays Rs 771 Brokerage and com

mission account for over 60 per cent of these charges while charges on account of terminal tax come to about 31 per cent In the United Provinces the average expenses come to Rs 655 per cent, all paid by the seller Of these, the municipal taxes come to Rs 180 allow ances in weight his 1 12 0 and commission and brokerage Rs 2 0 10 The market charges in Hyderabad appear to be the lowest among the areas considered, being Rs 2 12 6 per cent of which commission

In Burma markets, there appears to be only one market charge, alone comes to Rs 2 tiz, commission the percentage rate of which comes to about Rs 3 charged to the seller and Re 088 taken from the buver

D —Organization and control of markets

(1) Paincipal assizibling and distributing centres

Technically the word "market" has several meanings. It may mean just a meeting of persons for the purposes of buying and selling, or may represent a place where the buyers and sellers meet for the purpose of effecting exchange A market may be a region or a country or it may simply mean an opportunity to buy and sell It may also mean a body or group of people associated together for the purposes of buying and selling as for instance the various com modity and stock exchanges In ordinary language however a market means a place where the seller disposes of his produce to the buver

So far as tobacco is concerned a market may be taken to mean, in ordinary language a place where the growers sell their tobacco and where the merchants and warehousemen perform the as embling and distributing functions As alread explained earlier the bulk of the tobacco crop is sold by the growers in villages in fact on their own holdings and as such the farmers' holdings form the main primary markets for the disposal of grower's tobacco. In view of the fact that a majority of the growers part with their produce on their own farms by private negotiations with the huyers there is no regular assembling of produce in the producing areas and as such, no daily buying prices are established in the primary markets result is that the grower does not know whether he has secured the correct market price for his tobacco

The so called tobacco markets are really econdary markets for assembling and distribution where merchants and warehousemen where merchants and warehousemen by them in villages Even in these markets there is no open place where the produce is assembled in large quantities as in the case of wheat and cotton markets Generally the warehouse of a dalal or an arhatiya serves the purpose In certain areas there are no commission agents who deal exclusively in tohacco but they handle it along with other com modifies like grain sugar, hetel nut, spices etc

In Bengal, the principal assembling and distributing centres are Rangpur, Cooch Behar, Patgram Jalpaugur, Dinajpur Hargoocha, Calcutta and Dance Lealt these markets the datal's warehouse Calcutta and Dacca In all these markets the dalal's warehouse serves the purpose of a market place But these are of little use to the growers as sales are generally effected in villages

Similar is the case in the Chaotar area of the Bombay Presidency where there are no regular and open markets for the growers tobacco. The merchants however have their godowns and pressing factories at several places in this area and 'these act assembline and distrib ting centres. Such places of importance are Chikoder Nadurd Lethad Vogri and Anaud. In the Vigori area, Anjami Sangla and Java impur are the important markets for bid.

In the Madra Presidency Guntur is the largest assembling centre for cigarette tobacco In fact Guntur is the only place where cigarette man ifacturers ean purchase sufficiently large quantities of unmanufactured chaeco Major part of the Virginia leaf in the Guntur area is purchased by the Indian Leaf Tobacco Development Co Ltd who have got extensive arrangements for huying and stor age The remaining portion of the leaf is assembled by individual merchants who export fairly large quantities to the United Kingdom, Japan and other countries Except in the case of those who have entered into contract with the Indian Leaf Tobacco Development Co, Ltd there are very few growers who take their tobacco for sale to Guntur market Purcuses are made entirely in the villages by the manufacturers and Guntur exporters Palghat appears to be the largest assembling market for chewing tobacco while Gudivattam is the principal centre for pit cured tobacco. Madras city is also an important as embling centre for all types of tobacco meluding that meant for export. The extent of total business in Madras is estimated at about 2 lal hs of mannds per year. In the southern part of the Presidence, the largest assembling centres are Erode. Trich nopoly and Madura The marlets at Rajahmundry and Cocanada are the princ pal assembling centres for Lanlas tobacco In all these marl ets the ellers are mostly merchants who have made their primary purchases 11 villages. The warehouse of each mer chant or commission agent acts as a mariet There is no common vard or space in any of the e markets where a large number of sellers as emble their tobacco for sal

Similar are the conditions in the Vorth Bilar area. The more important centres for assembling and distribution are Muzaffarpur Darbhanga Dalsingsarai Khajauli Barh Shahapur Patoree and Patna In all these places the arhatiya's godown serves the purpose of the marl et At Dalsingsarai the Indian Leaf Tohacco Develop ment Co has got its purchasing depot but it is understood that the purchases of Bihar leaf for eigarettes bave largely declined during the past 3 or 4 years Delbi is an important centre of trade for all types of unmanufactured tobacco excepting the eigarette eigar and cheroot leaf

In the United Procuees the principal assembling and distribut ing centres are Farrul habad Benares Lucknow Biswan Vampuri Budaun Kampil Veerut Babraich and Moridahad At Farrukh abad there is a regular marlet for tobacco located at Lalsarai where as many as 13? arhatiyas operate In all these markets however there is no common place for assembling tobacco and the arhatiya's warehouse serves as a marlet In the Punjab the local produce forms a small part of the total tobaeco supplies in the province all the towns excepting Hazro no separate market exists for tobacco and business in many places is carried on in the sbops of commis son agents in grain markets The principal assembling centres for the tobacco produced in the North West Frontier Province are Peshawar and Hazro the latter being far more important

In Hyderabad assembling centres for other agricultural produce also serve for tobacco Large quantities are naturally assembled at the e places where bids and other tohacco products are manu factured Hyderabad city Narsingee Gulberga Yadgir etc large contres of bids manufacture and as such act as large assembling markets for tobacco The other assembling centres are Warangal Bidar Raichur and Latur In all these marlets tobacco is sold through an arhatiya at his godown by the village sahukars or money lenders and petry dealers who make their primary purchases in illinges. In Mysore Ravandur is the most important assembling centre in the southern tobacco area of the State There are about 3 important wholesale merchants and about a dozen more smaller merchants In the northern tobacco area of the State Sira is the most important assembling centre the other markets being Rampur lidgur and Alur In all these markets it is the village merchants who bring tohacco for sale through brokers The shop or a godown of an individual broler serves the purpose of a market place conditions in Baroda State are similar to those existing in the Charotar area

In upper Burma the principal assembling centres for the locally produced tohacco are Mandalay Palokku and Uyingyan The quantity of tohacco which annually passes through these centres is roughly estimated at 1 500 tons each for Mandalay and Pakokku and 200 300 tons for Myngyan In all these centres there is no regular open market for tohacco and the warehouse of the stockist and com mission agent is the place where the produce exchanges hands

(2) ORGANISATION AND CONTROL

It is therefore obvious that except the weekly municipal market at Aipani, all tobacco markets in India and Burma are privately owned and as suen there is very little organisation and control In fact it appears that of all the commodity markets tobacco markets are the ones most di organised requiring control measures almost immediately. The markets at Vipani, Jayasingpur and Sapji appear to be the only cases where attempts have heen made for organisation. Merchants operating at Vipani established a Metchants Learne in 1919 which fixed the units of sale, rates of commission charges deduction to be made from the gro s weight and other miscellaneous charges. The rates of discount for immediate payment as well as interest rates on overdues were also fixed by the Learne. The rules stupulate that no member of the League may deal with any per n who ha not cleared his accounts with another member if the Learne The Virels and Secaration also works on similar lines as at Vipani. The rates of deduction from gross weight, and the rules governing samples discount et a rel laid down.

Several attempts appear to have been made by the Sangli Darbar to regulate the Sangli market A scheme for the regula tion of market practices in the Sangli market was put into operation as an experimental measure in 1917 Bv 1921 the scheme was made permanent since it had shown good results during the trial period. In 1927 merchants and farmers made representations for certain charges and the Sangli Darbar appointed a committee to look into the matter and make recommendations Accordingly a Commercial Crops Market Bill was drafted and presented to the Sangh State Rvot As embly in its meeting in September 1933 The As embly referred the Bill to a select committee and finally passed it in May 1930 But owing to strong opposition from the local merchants it failed to receive the assent of the Raji Saheb of Sangh and was therefore dropped The commercial crops which were to come under the purview of the Bill were cotton, tohacco, jagger, turmeric groundnut and a few other commodities. The chief provisions of the Bill were (i commercial crops could not he sold or purchased except at a licensed market place, (11) each market committee was to const t of 7 members out of whom three were to be elected from among growers or nominated by Government from amongst the grovers two were to be licensed operators and one was to be a nominee of the local self-governing hody. The Chairman of the committee was to be nominated by the State Government The market committee could regulate storage of commodities in the market place and was to make rules regarding trade allowances units of weight deduction in gross weight arbitration of disputes ete

At present the Sangh market is regulated to a certain extent by the rules made by the Sangh chamber of commerce. These rules stipulate the time of opening and closing of the market-place the order of sales the units of harganing conditions of sale, allowances in weight ete. Rules have also been framed regarding the rate of discount and interest. It is thus obvious that in all the three markets. Nipain, Javasingpur and Sangh, attempts towards organisation have been made more from the point of view of merchants operations.

ing in these markets rather than from the point of view of the growers or sellers

In no other tohacco markets such attempts appear to have ever Growers who prefer to sell in a market are extremely few, firstly because there are no regular open markets and the warehouse of the commission agent serves as a market and secondly because sales in markets are, in many cases followed by disputes The most fruitful sources of disputes are the methods of weighing, quality variations in the lot offered for sale and the various deduc tions and allowances The weighman even in villages generally tries to favour the buver and in some areas it is alleged that huyers enter into contract or agreement with the weighman so that the latter might underweigh the produce. In the village however the grower is more free since he can more conveniently refuse to sell if the terms offered by the buver are not favourable But even here he cannot possibly afford to wait for a long time for unother customer hecause the tobacco leaf is hable to deteriorate in quality in the absence of proper storage facilities If he takes his produce to the market, he is very often forced by circumstances to accept the terms offered by the buver, because the commission agent generally favours the buyer and it is inconvenient to take hack the produce to the village If he waits at the commission agent s godown for another buyer to come, he generally finds that the other hayer already knows the terms offered by the previous one In the Nipani market, disputes regarding weighment and quality ara very common and in case the seller does not agree to the terms offered by the purchaser, he is to wait till the subsequent market day, that is for a week or to take his produce to a commission agent's godown and request him to effect a sale. The sellers in the majority of cases, prefer to accept the terms of the huvers rather than take the produce to a commission agent's godown for sale Sometimes different weights are used for buying and selling as in the case of some markets in the United Provinces The market charges and allowances in kind or eash are far too numerous and complicated, particularly in the two tobacco growing areas of the Bombay Presidence, and these vary not only from one district to another but also from village to village and from one commission agent to another in the same market. On account of variations in market charges and allowances at is but natural that the growers prefer to sell their crop in villages where they are not subject to onerous market charges In the Charotar area where the rate of discount varies in different villages from 2 to 15 per cent on the gross value, it is noticed that the buyers are generally not keen to make purchases in villages where the customary rate of discount This therefore acts as a handicap for these villages the other hand, the visiting buyers have to he very alert and keep themselves in touch with the current rates of discount and market allowances in all the tobacco growing areas so as to be able to secure the largest advantage

Except at Sangli, there is no system of open auction followed in any of the tobacco markets in India and Burma. At Sangli a part

of the bids tobacco locally l nown as 'angad' or 'chura' is sold by open auction. In all other markets the sale is by private treaty

On account of the fact that there are no organised and open markets and that the different types and qualities of tobacco bave not yet been defined market intelligence service with regard to supplies and prices is non existent and difficult. In consequence growers have to accept the prices offered to them by the buyers It appears therefore that organisation of regulated and open markets at a few centres in the principal tobacco producing areas of North Bengal Cla otar Apans Guntur and North Bihar would be advantage us. If such open and regulated marlets are organised it would be possible for the grower to know the extent of the market price realised by him and whether he has secured more or less than his neighbour. The practice might also encourage the growers to grade their tobacco leaf if they find that better quality fetches a higher price in an open marlet. The regulation of markets may be done on the lines adopted for the regulation of certain types of markets eg cotton markets in Bombay Central Provinces Hyder abad State and Madras The control measures should include such items as the appointment of a representative market committee standardisation of weights and methods of weighing as also of market charges and other allowances in cash and kind. All middlemen and buvers operating these regulated mariets may be licensed by the market committee under certain conditions

E -Finance of assembling

(1) VILLAGE baniya OR MONEY LENDER

The village banue or money lender is by far the most important source of borrowing for the growers. Advances for the growers current financial requirements are mostly given on promissory notes in the case of substantial growers and on pledging land or gwellery in the case of others. The rates of interest vary in accordance with general credit of the borrower the degree of his necessity the natura of security offered and the general rate of interest prevailing in the locality.

Except in Burma it is not the general practice for the village monest lender to give loans specifically against the tobacce crop Money is advanced as a general loan and the rate of interest charged ranges from 10 to 23 per cent per annuau in the North Bengal and North Bihar areas 9 to 12 per cent in the Guntur area and 18 to 373 per cent in the United Provinces. In the Charder area the majority of the tobacce growers appear to be financially well off. A few of the lower class growers like the dharatas in this area take loans from the local money lender on the security of lands or orma ments the rate of interest charged heing 12 to 15 per cent per annum.

The method of borrowing specifically against the tobacco crop is very common in Burna and it is understood that most of the tobacco growers take advances from the local moneylenders who are also tobacco merchants. The borrowing commences often enough

before the season has begun and continues in driblets from month to month as the cultivation progresses The loans are of two main classes those which carry conditions in regard to the disposal of the crop and those which in this respect are unconditional The latter type of Ican represent borrowings taken on the security of land house and rewellery and as such are limited to the borrowers of substance The rites of interest at Re 1 to Rs 2 per cent per month is considered comparatively low The form of loan which s more general is that taken from lenders who have an interest in the disposal of the erop or even manufacturers

The lenders may he village brokers truders in their simplest terms these loans may take the form of advances hearing an interest at 11 to 24 per cent per month the lenders being given the option on the horrower's erop at current rates or in the so called more friendly cases an advance free of interest conditional on the borrower selling his crop to the lender at about Rs 3 to Rs o per hundred viss below the market rate Conditions such as these however are enjoyed only hy the cultivators of standing. For the small tenant cultivator finance is harder Usually he takes loans on heepe hasis the amount borrowed being converted into tobacco deliverable after harvest at a stated price which generally represents from half to three quarters of the price reah ed hy the grower for his previous erop Enquiries indicate that majority of tenant cultivator habi tually pledge part of their crop in this was at any rate from other factors the conditions of the loan given to tobacco growers depend also on the quality of and demand for tobacco leaf produced in different areas In the Shwegyin taung bet kan area, for example where the tobacco produced has a keen demand every inducement is offered to the tobacco grower to take loans and pledge his tolacco In the adjacent Shwegyin tan his area however where the quality of the produce is inferior there is less eagerness to advance money and hence the rate of interest is high being about Rs 3 per cent per month with the additional condition that all the tobacco obtained shall be sold through the lender either at a fixed price or with a brokerage fee of Rs 2 per hundred uss

(2) MERCHANTS AND COMMISSION AGENTS

The small village merchants are very largely financed by the commission agents and merchants from nearby large markets commission agents from large mariets usually advance money to their chents up to about 50 to 75 per cent of the value of the produce deposited with them at varying rates of interest which is about 12 per cent per annum in Bengal and Bil ar and 9 to 10 per cent. in Bomba, and the United Protinces In the Alpan area it is estimated that about three fourths of the growers horrow money from the local petty merchants or from commission agents in the adjacent market centres Such loans carry interest at about 12 to 24 per cent per annum and in addition there is an obligation on the part of the horrowers to sell their tobacco through the lenders The large trade in chewing tohacco at Palghat in the Madras Piesi dency is maintained by a system of financing The commission agents from Palghat advance money to visiting merchants and LHOAR

village brokers with or without interest and the latter in turn lend out at higher rates varying from 12 to 24 per cent per annum. Altogether about 8 labs of rupes per year are said to be so advanced. In the Guntur distruct the Indian Leaf Tobacco Development Co. Ltd advances mones to burn-eners at about Rs. 100 to Rs. 300 per head. They also arrange to supply coal for the working of flue-curing barns. A few of the other merchants at Guntur also advance money to barn-ethers at about Rs. 300 per ham. There is however now a general tendency to do away with these advances either to the village broler or curer.

In the Cuntur area the bulk of the export trade is financed by the exporter, themselves though a few of the exporters got advances from their London leaf brokers at about 6 per cent per annum up to about 75 per cent of the value of their leaf lying in the United Kingdom banded warehouses

In other areas the upcountry buyers of unmanufactured tobacco generally remit the value of their purchases to their respective dalels and orhatiyas long after the receipt of goods. In a large number of the local commission agents and upcountry buyers have accounts with each other which are finally settled usually once a vear at the time of Dinali is in October Sovember. The growers and other cellers of tobacco on the other hand, are anxious to receive payments as early as possible after sale. The local and village datals who arrange for the sale of grover's tobacco give him an oral undertaking for paying the amount of sale proceeds within a specifi d period which may range from a week to even six months according to the custom prevailing in different tobacco producing areas except in the Gunfur area where the cigarette leaf buyers par the growers almost immediately or at most within a few days after sale In Lengal and Bil or the grovers are usually paid within about a f rinight while in other areas the sellers receive payment unt within about a month after sale. These parments are generalis made he the leval dalate and orhativas, from their own funds I ng before the receipt of money from the purchasers

The delate and exhatiyes therefore shoulder great responsibilities of financing the assembling and distribution of this produce as they arrange to pay the sellers their sale proceeds within spender periods and, on the other hand, supply the produce on credit to their chemis. In addition they provide facilities in the form of godowns and processing factories. Thus the delate, archityar and local merchants have to invest large sums of money in their busines. The required capital is raised by them out of their own savings or taking loans aramet gold pre insport notes or real estate or by taking loans aramet gold pre insport notes or real estate or by taking loans aramet gold pre insport notes or real estate or by taking advances, from purchases. The amount of advance takes rom a buyer depends upon his credit the volume of his purchase and his connections with his delay in Libear and Bangal for tample, many delast taxe advances from their buyers to the extension 25 to 60 per cent of the value of purchases. An advance payment of a part of the price is considered essential from new and unknown purchasers or from buyers of doubtful credit and in such as the balance is realised by the delate by sending the railway cases the balance is realised by the delate by sending the railway

invoice of the consignment by value payable post In case the buyer fails to accept the railway invoice the deposit amount is considered forfested to the dalal In many areas the interest on the capital invested by the dalals, arkatiyas and warebousemen to make pay ments to the sellers before the receipt of sale proceeds from the buyers is conveniently passed on to the sellers in the form of dis count The rate of this discount may be as low as 21 annas per hundred rupees in the Farrul habad market of the United Provinces to as high as 18 per cent on the gross value in the Charotar area There is no fixed rate of discount or tatav as it is locally called in the Charotar area. It varies practically from village to village and even in the same village it is not stationary for all the time understood that the rates of Latav have steadily increased during the last 20 or 30 years The rate of talan varies from 2 to 10 per cent or even to 18 per cent Similar are the conditions in the Aspani are though the discount rates are much lower If the dalals and arhatiyas pay the sellers within four days of the sale a discount of 4 per cent is charged Afterwards the rate of discount is 3 per cent up to two months If payment is made after two months no dis count is deducted. If the buver males payment for his purchases within the stipulated period of two months he claims this discount Such occasions are however few and as the majority of buyers par long after the two months period the discount is usually retained by the dalal or arhatiya In the Sangh market the purchaser has to pay to the dalal the price of tohacco within a month after sale If however eash payment is required before this period of grace expires a discount of Rs 190 per cent is allowed to the huyer Similarly when the seller demands money within a month after sale the amount is paid to him after deducting a discount of Rs 190 per A similar method of allowing discount is followed at Jayasingpur except that the rate of discount is Rs 3 2 0 per cent

(3) Shroffs

Thous or nd renous bankers do not appear to play any active part in the assembling and distribution of tobacco

(4) BANKS.

Banks usually hesitate to advance loans against tobacco because of its highly combustible nature and the possibility of its deteriora tion in quality during storage Besides it is found difficult to assess the value of tobacco in the absence of any definite system of classifi cation and dependable price data However some of the merchants borrow money from the local banks on personal security or against Government paper or real estate Thus in Travancore the Jaffaa tobacco merchants who trade on commission basis and who have to make advance payments up to about 75 to 90 per cent of the value of tobacco within 2 months of the receipt of tobacco do so by borrow ing from the local banks on personal security at about 19 per cent interest Some of the banks in Quilon allow overdraft facilities to tobacco merchants who deal with them regularly Banks as a rnle do not give any advances to tobacco growers.

(5) CO OPERATIVE SOCIETIES

The co operative organisation has developed mostly along the credit side all over the country and the non-credit activities form a very small part of the co-perative movement in India. Co operative someties have not so far taken any direct interest in the marketing of tobacco in any part of India and Burma, except to a small extent in the Wippin area.

In the Nypans area the Belgatun District Central Cooperative Bank has made arrangements to give advances against tobacco stocks at Nipam. As will be explained later in the chapter on "Storage and Stocks", about 3 lakks of rupees were advanced against tobacco stocks by this bank in 1985 36

INTER-CHAPTER FIVE

There is a striking absence of regular markets for tobacco in the producing areas. Not more than 10 percent of the produce is sold by growers in properly established markets. The hig bulk of the crop is sold in the villages either standing in the field or after curing At least three fourths of the growers in the Vipani area, for example, and more than one fourth in North Bihar sell their tobacco as a standing crop. Selling cured le, on contract is, on the other hand, a common method in the case of Vriginia eigenette tobacco.

The market charges in the villages are scandalously high and very immerous. In the Charotai area of the Bombay Presidency for example a grower pays in kind and cash about Rs 15 on every Rs 100 worth of tobac o which he sells and in some cases even more than 20 per cent. More than half of those marketing expenses are due to allowances and deductions in weight

The so called tobacco markets are generally secondary markets for assembling and distribution where merchants and warehousemen bring tobacco purchased by them in villages. Even in such cases there is no one central place where the produce is collected in large quantities as happens in the case of wheat or cotton Generally the warehouses of the dalals or arhatiyas serve the purpose of a market

Aipun is apparently the only place in India where the local municipality has provided one common place where the village tobacco is assembled for sale once a week (Thur-day) All other tobacco markets in India and Burma are privately owned and no attempt appears to be made for their organisation of control except at Nipani, Jayasingpur and Sangli where trade and market piactices are to some extent governed by the rules framed by the local merchants' associations

It is essential that regulated and open markets for tobacco should be established at a few centres in the principal tobacco producing areas of North Bengal, Charotar, Nipani, Guntur and North Bihar

Saugh, where at present a system of open auctions is in vogue, is the only place where attempts have been made to establish a regulated market for tobacco, but unfortunately owing to strong opposition from the local merchants, the Sangh Durbar had to drop the Commer cial Crops Market Bill which it was proposed to introduce It will be interesting, therefore to follow the pro gress of the Madias Government in attempting to intro duce regulated markets and open auction floors in the Guntun district In this case, however, it would appear that the bulk of opinion, both growers' and merchants' is in favour of the proposal Perhaps this may be asso ciated with the fact that marketing expenses there are alleady comparatively low being only a little over 5 per cent as compared, for example, with the chaiges at Nipani which amount to 121 per cent That there is still room for reduction is apparent from the fact that the market charges in Nizam's Dominions appear to be only a little more than 21 per cent

The provision of credit is a very important factor in the marketing of tobacco. Manufacturers and distributors who buy tobacco from or through the commission agents in the producing areas do not generally payfull long after the leceipt of goods. Indeed in many cases the accounts are only finally settled once a year, at Diwals in October November. The local datals who arrange for the sale of growers' tobacco generally only give an oral undertaking to pay the full amount of the proceeds over a period ranging up to six months according

to the custom prevailing in the different producing areas Growers generally have to wait about a month before receiving payment from the local dalal or arhatiya. In those cases where the arhatiyas or waterousemen pay growers before sale proceeds are received, the interest on the sums outstanding is passed back to the seller in the form of discount which may be as low as Re 0 2 6 per Rs 100 in the Farrukhabad market of the United Provinces, or as high as Rs 18 per Rs 100 on the gross value in the Charotar area

Steps are, therefore, necessary to improve the facilities for financing the erop Shroffs and indigenous banks do not appear to play any very active part in this business and joint stock banks usually hesitate to advance loans against tobacco because of the difficulty of assessing its quality and value and the possibility of its deterioration during storage. Two things are, therefore, essential, the systematic grading and standardisation of tobacco and the quotation of prices on the basis of those grades so that banks and others might know the value of the produce against which they would be expected to make advances, and the other is the provision of dry, rain proof storage where temperature, humidity and insect damage can be controlled

Co operative societies have not so fai taken very much direct interest in the marketing of tobacco except to a small extent in the Nipam area where, it is interest ing to observe, the district central co operative bank arianges loans against tobacco stocks and about Rs 3 arianges loans against tobacco stocks and about Rs 3 lakhs were advanced in this way in 1935 36. This lakhs were advanced in this way in 1935 36. This complete seems worthy of study. No system of cooperative sale appears however, to have been developed so far.

The question of finance seems to be even more acute in Burma where it is understood that most of the tobacco growers take advances from local money lenders who are also tobacco merchants and such loans bear interest at the rate of 1½ to 2½ per cent per month

The position is perhaps not much better in the tobacco areas of India although in those cases the moner is advanced as a general loan and not specifically against the tobacco crop. The rate of interest charged varies from 15 to 24 per cent per annum in North Bengal and North Bihar areas. 9 to 12 per cent in Guntur and 18 to 374 per cent in the United Provinces. These terms seem appallingly onerous and should be capable of being reduced by organised banking and better arrangements for storing and marketing.

CHAPTER VI—CLASSIFICATION, GRADING AND STANDARDISATION

A —General

It will he observed from what has been stated in the earner chapters that in the absence of any definite system of classification and grading the position of tobacco trade in India and Burma has become extremely confusing and unmtelligible Official price quotations are obviously of no commercial use in the trade betwe n apparently all that can be expected under the existing conditions producing and consuming centies of trade In order to enable information to be published for the benefit of sellers and huvers a dependable system of price quota tions ought to he worled out If this could he done it would hring the producers and the consumers into closer contact. The cast ing vitem is such that the quality of the article in each type varies from one merchant to mother The tactors that determine the quality are however well known and it should be possible to define the various types classes and finally the grales in accordance with tlese factors

The advantages of grading are obvious It helps in the collection and dissemination of market information establishing marketing and futures transactions and sav ing he marleting and transport costs on useless materials. The adoption of standardised grades has a spec al advantage in tohacco trade As is well known a tobacco smoker is conservative with regard to his smoke and the trade of leading manufacturers depends to a large extent on the continuity of their standardised products from year to year Violent fluctuations of quality are not there fore to the ultimate advantage of the parties concerned in the tobacco trade—the grower the manufacturer and the smoking public It may be however stated at the outset that apart from the efforts heme made since 1936 by the Ceutral Marketing Staff ne co operation with the Provincial Marketino Staff to standardiss the grades of eigarette tobacco lent to which a reference will be made later there are no standardised grades for any of the different types of tobacco produced in India and Burma as in other important objecto producing countrie lile the United States of America Rhodesia and Canada

At the same time it may be observed that the problems of grading tobacco are extremely complicated and appear to be almost hope less to the inexperienced. It appears that of all the agricultural that the products tobacco requires the greatest degree of skill and knowledge in the matter of grading. Products like wheat oilseeds and fruits in the matter of grading. Products like wheat oilseeds and fruits up discovered to grade by mere mechanical sorting according to size and are easier to grade by mere mechanical sorting according to size and are greated for the greatest products. Until e other by discarding foreign matter and defective products. Until e other by discarding foreign matter and defective products and the work crops each leaf of tobacco has to be handled separately and the work of sorting and grading can only be done through long experience of sorting and grading can only be done through long experience.

quality factors are extremely difficult to judge for the inexperienced, as for instance colonr texture and strength Besides a particular quality factor which is of great importance in one type may not be so in the case of other types. Thus while lemon yellow colour is considered of paramount importance in eigarette leaf, it has absolutely no value in fact it would be a defect in tobacco intended for eight cheroot bidi hookah, chewing and snuff The farmer who grows a particular type of tobacco and the merchant and mannfacturer who deal in that type however know by their long experience and practice how to sort the leaf of that type into different qualities So far as tobacco grown in India and Burma is concerned such sorting practices adopted by growers merchants and manufacturers are vague and not easily definable in the ease of some types (eg, bids powders) while in the case of others (eg, eigarette leaf) the factors of quality taken into account in sorting are fairly specific and capable ot being standardised. As a first step toward, grading and standardisation therefore it would be desirable to select only those types and claye in which the growers merchants and manufacturers have made some progress in the matter of sorting according to some definite quality factors. It would be however desirable to discuss in brief the existing methods of classification and sorting adopted for the everal types produced in the various parts of India and Burma

B-Present practices of classification and grading

All commercial types of tobacco grown in India and Burms all into 2 general groups namely Victima Tabacum and Victima Rustica and the high bulk of the erop may be simply classified about a secretaince with the present practices followed by the growers and traders

Туре	Class	Principal areas
A scotsana Tabacum-		
I Orgarette	(a) Flue cured (b) Sun cured 2 Country (Natu) (a) Flue-cured (b) Sun cured	Guntur Mysore - Saharapar Jbansı and Satara areas Mamly in the Guntur area and to a small extent in Bihar
II Cigar	3 Unkappal	Trichinopoly and Combators districts
	4 Rangpur	Rangpur and Cooch Behar

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Туре	Class	Principal areas
III Cheroot	5 Jats	Rangpur and Cooch Behar areas
	Mannly the bhengs variety of join to join to join to join to join to John Manney and John Manney and John Manney and Burmer (a) Kun year hee (b) Hattan Burmer (a) Lal (b) Lalvo (c) Vipani (b) Sangli (d) Vipani (b) Sangli (d) Vipani	Trichmopuly and Coumbators districts Madera district Salls us this group and may be sub North of Thavetrivo see Shwegin Charsfar and Baroda Belgaum Satara and Kolhapur Misore North Bengal and Cooch Behar Bihar L P and Punyal North Bengal and Cooch Behar Bihar and the L P Coumbatore district Mysore North Bengal and Cooch Bel us Nort
VIII Snu"	20 \anoth	

The quality characteristics of the principal types and varieties have already been described in the Chapters on Supply Appendr LXI shows certain physical and chemical characteristics of cured tobrece leaf produced in India and Burma hased on the results of physical and chemical examination of several commercial samples of tobacco obtained from different parts

(1) NICOTIANA TABACUM

- (a) Cogarette leaf—(i) Virginia flue cured —The most desir able quality, factors of Virginia flue cured leaf are bright lemon yellow colour fine and sill, texture like a thick handl erchief good sill, texture like a thick and continuous burning character white ash and pleasant or neutral aroma.
- In the Gustur area the colour of the leaf ranges from bright lemon to reddish brown with fine silly and full to thin texture the size being 12 to 18 inches long and 6 to over 9 inches broad. In the case of growers who contract with the Indian Leaf Tobacco Development Co Ltd to deliver leaf of different qualities at prices specified in the contract the curred leaf is sorted into 5 grades as below
 - to 1—Leaves of bright lemon or golden vellow colour good texture without any sponginess and other blemishes and with yellow veins
 - No 2—Colour and texture nearly the same as in No 1 but with greenish veins and small greenish patches
 - No 3-Yellow with greenish and brown patches in places
 - No 4-Leaves of reddish and green colour not well cured
 - to 5-Scraps and rejection but not sweepings or dust

In the case of other growers, it is the usual plactice to byle the leaf without grading but after removing trash and spoiled leaves. The method of grading adopted by exporters varies from one merchant to another. The principle adopted is however the same the grades being arranged from bright lemon yellow colour without any blemish to leaves with yellow colour with slight blemishes and finally to darker green and mahogany shades. They go under different names given by individual exporters as extra light number one to three or extra light semi-light and light brown. The purchase leaf flobacco Development Co. Lid. are not the same as those made for export. The company rearranges the purchased leaf into several grades in accordance with the requirements of its constituent manufacturing firms in India and England

It is therefore apparent that the present practice of grading flue cured leaf is based largely on colour and amount of blemish on the leaf surface. Texture receives the next consideration while no sorting is done according to the size of the leaf. The same practice is followed in other areas over Mysore and Sahrranpur.

The colour of the Mysore leaf ranges from hright lemon to green with fine silky to thin and papery texture. The length of the leaf is 10 to 18 inches and the hreadth 4 to 12 inches. The Mysore Tobacco Company Limited sorts leaf into the following six grades though the 1937 crop was sold in an ungraded bulk to manufac turers -

No 1-Leaf with bright lemon vellow colour and no blemish

No 2-Leaf with light yellow colour and no blemish

No 3 -Leaf having hright or light yellow colour with small greenish or orange coloured patches

No 4 -- Same as No 3 except that the greenish or orange coloured patches are larger

No 5-Leaf having green colour

No 6-Broken leaves etc

The leaf grown around Scharanpur has almost the same quality characteristics as that produced in the Guntur area The few growers sort their leaf into 4 grades as helow -

No 1-Leaf with lemon vellow colour good texture and with practically no brown or dark spots

No 2 -Leaf having almost the same colour as in No 1 hut with larger proportion of hrown or dark spots or having slightly deep yellow colour tending slightly towards brown

lo 3 -Leaf with slightly inferior yellow colour with greenish tinge and having more spots than the leaf of Yo 2 grade

No 4-Leaf having more green colour than vellow

The small quantity of eigarette leaf produced in Satara district of the Bombay Presidence is inferior to that produced in other areas The colour ranges from vellow to light brown texture heing medium to thick but fine The size is small being 9 to 1.0 inches long and 5 to 10 mehes broad No systematic efforts are made towards sorting the leaf

(11) Virginia sun-oured — Guntur is the only area where sun cured Virginia leaf is produced though in rapidly declining quantities owing to the rising prices of flue cured leaf during the past 3 years The size of the leaf is the same as that of the flue cured leaf the colour ranging from light to darl brown Exporters generally sort the leaf into three grades us (1) Virginia red or light brown (2) Virginia green or brown with green patches and (3) Virginia dark or dark brown

(m) Country (Natu), flue cured -On account of the rise in the prices of Virginia fine cured leaf the production of country (Natu) fine cured leaf has been continuously declining during the last 4 years and has now practically reached a vanishing point. It is years and has now practically reached a vanishing point. It is understood that with the rise in the area under Virginia flue-cured leaf country flue cured tobacco will no more be produced in the Guntur area. It is not therefore worth discussing the quality factors and grading practices of this type of leaf

(iv) Country sun cured—The important quality factors in judging the country sun cured eigarette leaf are the colour texture and freedom from blemsh

The country (Natu) tobacco of Guntur is the most important for eigarette manufacture. The leaf is light to dark brown in colour medium and phable in texture 10 to 18 inches long and 6 to 9 inches broad It has mild strength and pleasant aroma. The exporters usually sort the leaf into three grades according to colour into light brown brown and dark Some of the leading exporters however adopt 4 or 5 grades like bright light brown light dark heavy brown and heavy dark. Texture and blemish are next in importance. The country (dest) leaf from Bihar is about 15 to 18 inches long and 6 to 9 mehes broad yellowish brown in colour and medium in texture It is mild in strength but sometimes has an earthy flavour Usually the middle leaves called murhan of the dem tohacco are sold to manufacturers of cheap eigarettes No further sorting of murhan appears to be in practice on the part of the growers or merchants though cigarette manufacturers furtler sort the leaf into 2 or 3 grades according to colour

(b) Cigar leaf—The quality characteristics desirable in eight tobaccos are light to dark brown colour thin to medium and pliable texture good size freedom from blemish mid strength slow regular and continuous burning character white ash and agreeable flavour. For wrapper purposes the leaf should be pliable with smooth and glossy appearance and thin veins and good length. Size is relatively unimportant for filler and binder purposes for which medium to thick textured leaves are considered iderable.

The Usikappal lerf produced in the Trichinopoly and Combators districts of the Madras Presidency is light to dark brown in colour thin to medium and plable in texture about 18 to 24 inches long and 4 to 9 inches broad. No particular system of grading appears to be practised for this type of tobaco. The eiger manufacturers make their purchases on samples from I nown merchants who have experience of the qualities desired by the various manufacturing firms. After purchase the manufacturers generally sort the leaf in accordance with colour texture and size or sometimes get the sorting done by merchants from whom they have

The small quantity of eigen leaf produced in the Rangpur area of the North Rengal is greenish to dark brown in colour thin in texture about 10 to 22 moles long and 6 to 9 inches broad. The leaf is sometimes sorted by merchants and manufacturers into four grades as below —

No 1 —Good sound leaf with hrownish vellow colour and 20 mehes and over in length

No 2—Good sound leaf with brownsh yellow colour and brown patches and 15 to 19 mehes in length

- No 3—Good sound leaf with greenish brown colour and 12 to 15 inches long
- No 4—Any leaf without blemish and damage and below 12 inches in length

These are grades used for wrapper leaf For the filler and binder purposes the leaf is sorted according to size and the extent of blemish and damage

(c) Cheroot leaf —For cheroot making a leaf with light to dark brown colour, medium thickness medium to strong and agreeable layour and strength even burning quality and white ash is preferred.

The 1st tobacco produced in North Bengal is greenish to dark brown in colour medium in texture 15 to 22 inches long and 6 to 12 inches broad. The leaf intended for export to Burma is first sorted by colour and then by size. For export to Moulmein leaf with dark brown to almost black colour is preferred. This dark to black brown to almost black colour is preferred. This dark to black coloured leaf is further sorted into three grades according to shades of colour the black coloured leaf forming the first quality dark of colour the black coloured leaf forming the first quality dark of colour the black coloured leaf forming the first quality dark of colour the black coloured leaf forming the first quality dark of the cocasional and a state of the control of the colour shades of the colour with brown spots and patches are preferred. These leaves are usually sorted into four grades according to size and colour as below.

- No 1 or Chama —Leaf with brownish yellow colour with brown spots all over and above 10 to 22 inches long and 9 to 12 inches broad
 - No 2 or Medi.—The colour and size are the same as in No 1 except that the brown spots are in patches only
- No 3 or Muzed -- Narrow and thin leaf 10 to 15 inches long and 5 to 6 inches broad with greenish brown colour
- No 4 or Mized -Smaller leaves and rejections greenish and dark brown in colour

The sand leaves known as bishpat are separately barvested and cured. They are then sorted out into two grades according to colour, trz. light brown and greenish brown. The light brown bishpat of jets tobacco is sometimes used in the manufacture of cheap cigarettes.

The quality characteristics of Usikappal leaf produced in Trichinopoly and Coimbatore districts are the same as those men though the graph of the Wolffeld from Madura district is toned under eigar leaf. The Uonnakappal from Madura district is usually dark brown in colour than to medium in exture 18 to 30 usually dark brown in colour than to medium in exture 18 to 30 usually dark brown in colour than to medium in the state of eigar to held of the produced in the Madras Presidency no definite system of grading produced in the Madras Presidency no definite system of grading appears to be practised for these two classes of cheroot leaf, the manufacturers making their purchases mostly on the basis of samples

After purchase either the manufacturers or the merchants on their behalf generally sort the leaf in accordance with colour texture and size

The L trace cler ot leaf is greenish to dark brown in colour thin to me limin and pluble in texture 15 to 30 inches long and 6 to 12 inches broad For the Lunyua have which is by far the most important variety the grading of the leaf is hased on a combination of size and quality. In this latter thickness and body are the man considerations. The three chief grades are—

No 1—Hse gys—Leaves thick and big with a full complement of brown spots on both sides of the leaf Vens most be thun and the leaf clustur. This grade is further subdivided according to size into (1) Hse gys yaving (2) Hse g.p. knasa 1 man and (3) Hse gyp-knash ps'

No 2-Hee lat -As in to 1 but leaves of smaller size

No 3-Hse pa -Leaves may be big or small but are thin in body with few brown spots

For the Shwegyin and Burmese Hatana the grades are based mainly on the consideration of size as below —

- No 1—Hse gyp or I a bat gyp —Leaf about 10 to 14 inches long with fine and phable texture to serve as first class wrapper
- No 2—Hse lat or Ta but lat —Medium sized leaf about 18 inches long medium in texture
- No 3-Hse gale or Ta bat hto -Leaf about 12 mehes long with medium texture used as hunder
- No 4-A sa hse -Small leaves about 6 to 9 mehes long used as filler
- (d) Bid leaf—The most important factor determining the quality of bids leaf is it estrength. A good bid tobacco should give a strong but sweet and mellow smole. The other important factors are colour and this eness. Orange to hight greenish brown leaf with but not coarse so that the leaf may not break down to dust when being made into brid powder.

The bull leaf produced m the Charot m and Baroda areas is thick in texture but not coarse 12 to Lo inches long and 5 to 9 inches broad. The lat tobacco is greenish vellow me colour with brown spots while the colour of late oleaf is more or less green with a light yellowish tinge. Brightness or lustre is considered to be an important consideration and dullness of colour is supposed to be a drawback. The bull leaf produced in the Vipum area is stronger. The colour bull leaf produced in the Vipum area is stronger. The colour brown spots spread on the surface of the leif which give the leaf an appearance of the slin of a painter. The texture is thick but not coarse the size being about 12 to 18 mehes long and 6 to 9 inches broad. No grading worth the name is done in both these areas. As

already described earlier in the chapter on "Preparation for Market", bid tobacco is prepared by roughly pressing the dried leaves so that they fall into small pieces. Leaves from the main crop, ration crop and sand leaves are enred, crushed and sold separately. The coarsely crushed leaves in which form the growers sell their tobacco, are further reduced to smaller sized flakes either thouse, or the time of preparing these smaller sized flakes either the same of the time of preparing these smaller sized flakes there. At the time of preparing these smaller sized flakes the three of preparing these smaller sized flakes the time of preparing these smaller sized flakes the time of preparing these smaller sized flakes the time of preparing these smaller sized flakes the same shad on the strength and to some ages and quality which is mainty based on the strength and to some extent on colour also. Each processing merchant has his own blends which are designated by a number, as No 80, No 328, No 151, etc.

The small quantity of bids leaf grown in the Mysore area is yellowsh brown in colour and medium in texture. The leaf is over 18 mehes long and 3 to 6 inches broad. The leaf is sorted according to size, the middle and bottom leaves on the plant forming the pinds which is considered to be the first quality. The top leaves and broken leaves form the second quality known as Mandau Chour Sand leaves and leaves obtained from the ratioon crop constitute the third and the lowest quality locally known as Taragu.

(e) Hookah tobacco—A thick coarse leaf strong in flavour is used for hookah. Other factors of quality like colour, size of leaf, used for are considered relatively unimportant though a leaf with dark brown colour is preferred.

The quality characteristics of jot leaf produced in North Bengal have already been referred to earlier. When the jot leaf is intended for hotain or chewing no systematic sorting is done. As in the case of the jot leaf exported to Burma, a few merchants however sort the leaf in accordance with the strength texture and colour.

No sorting or grading of desi leaf is done to any appreciable degree except to some extent in the North Bishar area where sorting appears to be fairly widely practised by the growers and merchants in accordance with the position of the leaf on the plant. The main in accordance with the position of the leaf on the plant. The main occop is roughly sorted after enring into three grades murthen or the marked or bottom leaves indial leaves raint or top leaves and chiababa or bottom leaves middle leaves are yellowish brown in colour and medium in texture and strength. These are sometimes sish divided into 3 grades accord and strength. These are sometimes sish divided into 3 grades accord and strength. These are sometimes sish divided into 3 grades according to size. Leaves of raint grade are greenish brown in colour and medium in size, texture and strength. The chilabua leaf is brown including to green in colour, coarse in texture and strongly flavoured.

The des leaf produced in the United Provinces Punjab and the North West Frontier Province has similar characteristics being greenish brown in colour, medium to thiel and coarse in texture 6 greenish brown in colour, medium to the dear leaf of the United to 12 mehes long and 3 to 6 mehes hoad The dear leaf of the United to 12 mehes long and 3 to 6 mehes hoad The dear leaf of the United Fronnices is, however, considered superior in texture and flavour

(f) Chewing and snuff tobaccos —As already stated earlier in the Supply Chapter, there is no variety grown to any appreciable

(2) NICOTIANA RUSTICA

(a) Hookah and chering -The motihari leaf of North Bengal is greenish brown in colour, thicl coerse and wrinkled in texture 10 to 15 inches long and 6 to 12 inches broad \o orting is done either by the grovers or the merchant, to any appreciable extent though manufacturers and retailers sort the lent according o treng h texture and colour before mannaanre or sale

The vilayati lent produced no them the Purner district of North Bihar is con idered to be very inferior quality I ookah tobacco The leaf is dare brown in colour, thin and coarse in texture about 8 to 12 mehes long and o to 9 mehes hroad No sorting of any and appears to be done for this type of tobacco

The calcuttia leaf produced in the United Provinces Delhi and Punjab is greenish brown in colour medium to thick and coarse m texture, about 8 to 12 mehes long and a to 9 mehes broad sorting of any kind appears to be practised either by the growers or wbolesalers except in some markets like Hazro in the Punjab where a rough classification is done by the wholesale merchants. In all these areas however the calcutula leaf is prepared for the market in these areas however the calcutula leaf is prepared for the market in these areas ways and is sold separately. The three different ways are tobacco bundles, tobacco ropes (russa) and tobacco powders The tobacco bundles are made of either the leaves or the whole cured plant Leaf bundles are partly used for chewing but bundles of whole plants, ropes and powders are almost invariably used for hookah, a very small quantity being used for snuff. The powders are of three distinct kinds, uz, leaf powder powder of stalks and stems and powder made from the flowering shoots In the Delhi Province, the e three types of powders are called radds pattili, radds laldili and raddi churali At the time of making these powders by beating the tobacco plants with heavy wooden mallets on open fields, a considerable quantity of earth gets mixed with the powders and the radds churak in Dellu Province often contains as much as 50 per cent earth The merchauts at Hazro classify the tobacco in the market as follows -

No 1-Juri -Bundles of whole tobacco plants

No 2-Pattar -Leaf or leaf powder

No 3-Radd: -Powder of stalks and stems

No 4-Kats or dhura -Powder of leaf and stalks

No 5-Galla-backa -Powder of flowering shoots

Each of these are further sub divided into three or four groups in accordance with strength, thickness of leaf and, to a small extent colour

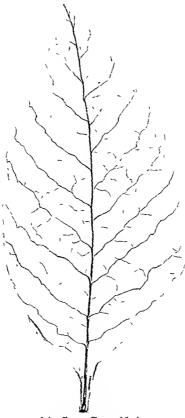
(b) Snuff — The nasuar snuff tohacco produced in the North West Frontier Provinces is brownish green in colour, thin to medium in texture, 10 to 12 inches long and 5 to 8 inches hroad. The method of several parts of several parts of the method of the of sorting adopted by the snuff manufacturers at Hazro is based on of sorting adopted by the snuff manufacturers at Hazro is based on the position of the leaf on the plant. The three or four top leaves (sarpatta) are used in the manufacture of superior quality snuff the lower leaves (mudapatta) being used for making the lower quality product

C -Suggestions for standardisation and grading

(1) GENERAL

The bull of the tobacco crop in India can be classified into 2 botanical species 8 commercial types and 20 classes These are sub divided again as in the case of certain classes of eigarette bidi and There are sixteen classes of Nicotiana Tabacum hookah tobaccos and four of Accotiona Rustica These different classes have different quality character stics and different price levels and are quite different in this sense that a buyer who wishes to have one will not be satisfied if another is delivered to him instead towards bringing order out of the present confusion is for these 20 classes to be recognised and quoted in those marlets where they are available and for traders to buy and sell on the basis of these descriptions It would be also desirable for the growers in any district or area uniform with regard to soil climate and rainfallto grow only that class of tobacco which has been found most success ful and become typical of the district or area so that the reputation of the area for that particular class may be built up The Agneul tural Departments might render necessary assistance in this respect by propagating the seed only of the type and class found most sutable in any one area. It would be also essential to see that the number of classes and varieties grown in any uniform area is reduced to the minimum

Even when the different classes are recognised there still remains a fairly wide range of quality and price within the class according to grade but the question of standardising the grades of tobacco under each class is far from being simple Apart from the several complex factors that constitute quality the area of production is the most important consideration taken into account by all the manu facturers before making purchases In consideration of the intro duction of grade standards therefore it must be recognised that they would apply to certain areas of production of fairly uniform type and quality The survey results indicate that there are quite a few such uniform areas where individual merchants follow their own system of grading based on certain physical factors of quality such as colour texture size etc But this individual grading almost always results in the same so called grade varying from one merchant or grower to another in the same place. Even with the same mer chant or grower the specified grale varies from month to month and season to season and he generally bases his grades more on the type and quality of tobacco available with him than on any specific factors of quality It is on this account that big manufacturers always prefer to visit either personally or through representatives even areas of fairly uniform production to bny leaf in bulk at a flat rate and subsequently grade it to suit their requirements. In the interest of the development of trade it is essential to organise these individual attempts at grading into some definite standard system



Indian Virginia Flue cured Leaf Standard Grade No 1

(2) Suggested factors and system of grading

The following suggestions are made regarding the factors and system of grading the several types and classes -

(a) Nicotiana Tabacum —

(1) Cigarette tobacco-Virginia flue cured - As discussed earlier, the principal factors taken into account by the growers merchants and manufacturers in grading Virginia flue cured leaf are the colour, texture and the hiemish The colour may vary from bright lemon to dull yellow with greenish tinge or reddish yellow. The texture may range from fine and silry to coarse and thin and papery while the usefulness of the leaf in manufacture would decrease with the amount of hlemish on the leaf surface in the form of green colour spongmess, sealding brown and black spots disease etc into account all the possible variations in these three factors of quality, the flue cured leaf can be conveniently graded into five standard grades to which a reference will be made later

Virginia sun-cured -Similarly the Virginia sun cured leaf can be graded into three grades in accordance with variations in colour, texture and the amount of hlemish on the leaf surface

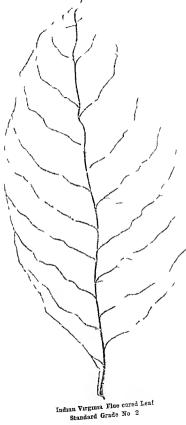
Country (Natu) -Five grades for this type of tohacco are sug gested taking into account colour, texture and hlemish

(u) Cigar leaf -The principal factors of quality with eigar leaf are the colour, texture, size and freedom from hlemish. quantity of eigar leaf grown in the Rangpur area is at present being sorted by a few merchants and manufacturers into four grades hased on colour, size and hlemish Taking into account these practices it should not he difficult for the Bengal cigar leaf to he graded into four distinct qualities, hased on the variations in colour size and the extent of blemish

The same procedure may be followed in grading the *Ushappal* and the produced in Madras taking into account an additional quality factor, texture Considering the variations in colour texture and the amount of hlemish it may be possible to define about 5 grades for this type of cigar leaf

(111) Cheroot leaf - The greatest possibilities of standardising grades of cheroot tohacco appear to exist in the case of Jan tobacco produced in the Rangpur and Cooch Behar areas of North Bengal The main factors for consideration in the grading of jati tobacco are the colour, size and the extent of brown spots on the leaf surface Each of the e quality factors has different importance in different markets By studying the quality requirements of the principal markets like Rangoon, Moulmen etc. it should be possible to presente at least three to four grades for each of the important formulations at reast three to ionr grades for each of the principal quality

In the case of Usikappal and Meenampalayam cheroot tobacco produced in Trichmopoly Combatore at 1 Madura districts the



In the case of calcuttia leaf produced in the United Provinces. Punjab and Delhi it is difficult to suggest at this stage any system of grading for powders and ropes The method of preparing the produce by pounding the whole plant into powder on open fields encourages the mixing of cuth and in De'ln Pro mee alone at is estimated that the earth so colle ted amounts to about 2) per cent of the total weight of tobacco Further enquiries made in this respect indicate that the growers would gain considerably by celling their produce in the form of hundles composed either of leaves or whole plants But the growers generally prefer to make the tobacco into lowder It would appear that there would be some advantage in putting the powders of the different parts of the tobacco plant on he market free from earth. Manufacturers and buyers in Delhi City are in favour of a change of practice by the local growers on this line and they line expressed the view that it would in fact pay the growers to do so The growers and the village merchants on the other hand are inclined to take a different view and claim that the total sum r cerved for tobacco and earth are larger than would be is erved for clear, tobacco They point out that the hook ah manu facturers are accustomed to use a proportion of earth in making up their mixtures and on that account are not inclined to give up the practice of mixing earth with local tobacco. There seems to be no doubt that the reputation of the areas which are accustomed to mix a considerable quantity of earth in powdered tohaccos must be such that any individual grower who attempted to market clean produce would find it difficult to get a sufficiently high price to compensate him for the absence of earth and any proposal to raise the standard of quality by introducing suitable grades would have to meet a general agreement in the trade before it would be successful For individual growers or merchants who are at present anxious to secure an enhanced price it would it is suggested be better to put their tobacco up in an entirely different form eg in juttie or bundles.

form of leaf hundles instead of bundles of whole tobacco plants. The additional labour that may be required in plucking the individual leaves from the plant is not of much practical importance on pessant farms. Since there is a demand for the powdered stalks and stem the remaining portion of the plant can be crushed into powder and sold to hook an maintacturers.

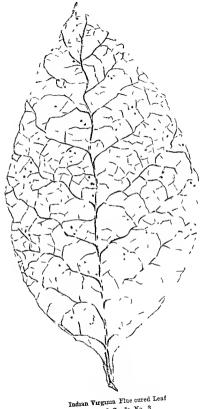
The first obvous step is for producers to sub divide their hooted tobacco and put the different parts of the plant on the market separately and the leaf should preferably be in the form of builds but it is a matter for further investigation and experiment whether the calcuttle leaf can be sorted into three or four grades in accordance with colour and thekness of leaf.

(ii) Snuff tobacco—The method of sorting adopted by small manufacturers at Hazro in the case of measurer tobacco produced in the North West Frontier Province is based on the position of the leaf on the plant the 3 or 4 top leaves being considered superior to the lower leaves. The quality factors generally taken into account are colour thickness and brittleness of leaf. The question of defining standard grades on the basis of colour and texture remains to be investigated.

(3) SUITABLE AREAS FOR GRADING TORACCO

As a first step towards the introduction of grade standards for tobacco leaf grown in India such attempts might be made with a reasonable hope of success for following types

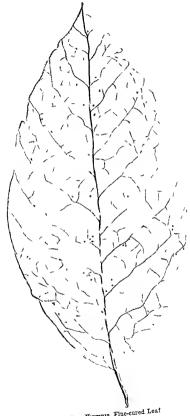
Clase	Areas	
Nections Tobocum— 1 Virginis— (a) Flue cured (b Sun cured 2 Count y (Vain)— Sun cured 3 Unknppi— (a) Cigar (b) Cheroot 4 Monnakappi— Cheroot	Guntur Mysore Saharangur Jhani and Satara Guntur Trachinopoly and Coumbatore Madwra	



Standard Grade No 3

Class	١	Areas	
		Rangpur and Cooch Behar	
5 Jati	- 1		
(a) Rangpur cigar	1		
(b) Bhengi cheroot			
(c) Chewing			
(d) Hookah		Bihar U P and Punjab	
6 Des-		Bliss 6 2	
(a) Hookah		1	
(b) Chewing.		Combatore	
7 Meenampalayam—		Comparon	
Chewing		l	
B Mysore—	Mysore		
Chewing			
Neotiana Rusisca—		North Bengal and Cooch Behar	
9 Motihari— •• ↔	•		
(a) Hookah		1	
(δ) Chewing		North Behar	
10 Vilayatı— •		North Denai	
Hookah		UP Punjab and Delhi	
11 Calcuttsa— •		Op Punjas us-	
(a) Leaf-			
(t) Hookah			
(11) Chewing		1	
(') Powders-		1	
Hookah		1	
(c Ropes—			
Hookah		h w f P	
12 Naswari—			
Snuff		co, attempts might be made for Kinnese Harana, in areas of Shweg	

For Burmese cheroot tobacco, attempts might be made for Kun Washie and Shuegym and Burmese Hatana, in areas of Shwegym and north of Thayetmyo



Indian Virginia Flue-cured Leaf Standard Grade No 4

Darbhanga and Trichinopoly areas and it is hoped that some i ind of standard grades might be tried in these areas as an experimental measure during the next tobacco season

(4) STANDARDISATION OF PACKAGES

Another problem of standardisation is with regard to the methods ages used for the indigenous types of tobacco appear to be satisfactory under the existing methods of trade and consumption The ques tion of using standardised and better types of packages for Indian egarette tobacco is, however important At present the bull of the cigarette leaf exported by Indian exporters is packed in bales containing about 250 lb of leaf Since the hulls of the cigarette tobacco exported goes to the United Kingdom it would be desirable to consider the opinion of the United Lingdom manufacturers regard ing the advisability of pacing eightet leaf in bales. Most manu facturers believe that tobacco matures better in the cal thau in the hale and almos all complain that packing in bales results in greater breal age of leaf and therefore of waste more particularly when by mexperience the leaf is over died. The American tobacco received in the United Kingdom market is almost invariably packed in casks of the 'tierce'' description weighing under 900 lb net or in cases The manufacturers always show a preference for tobacco that is packed in hogsheads casks and wooden cases and it is on this account that few of the Indian exporters have been export ng their leaf in hogsheads during the last 2 or 3 years. The biles and hogsheads used by Indian exporters are of fairly uniform size but with view to standardise these packages it would be desirable if the Indian Tobacco Association at Contur also adopts standards for packages particularly for tobacco leaf exported according to the standards It would be also desirable to include provision in these rules for standardised methods of packing

D—Systems of grading in some of the important tobacco producing countries

(1) RHODESIA

After the leaf is removed from the flue curing barn it is roughly sorted into four grades according to colour viz, bright medium dark and green. Each of these grades is arranged in separate builds. Leaf which is green in colour is placed in one corner of the sixed as this builk is the last one required for grading. The tokace is the builk is the last one required for grading first with the bright leaf. It is placed on tables in the griding shed where it is sorted leaf. It is placed on tables in the griding shed where it is sorted leaf at visions one each for the following grades at raightly six divisions one each for the following grades at raightly six divisions one each for the following grades at raightly six divisions one each for the following grades at raightly six division and talen for final sorting to another table with four sub division and talen for final sorting to another table with four sub divisions which are for Nos 1 2 3 and the leaf with green time.

slightly perished or torn leaf is next graded out in a similar fashina and so on until the last of the grades from the six divisions has been dealt with Affer the hright leaf the medium leaf is dealt with them the dark leaf followed by the green tobacco. The graded tobacco is now ted into hands. Only leaf of similar grade and length is tied in the same hand of tobacco. Leaf under eight inches in length is not tred into hands hin is packed in bales as loose leaf. There are 49 standard grades for fine cured leaf. Appropriate standard symbols have been adopted to designate the different grades.

(2) SOUTH AFRICA

Before the green leaves are threaded and cured they are sorted into the following classes according to condition and size, t.i.z., large, medium and small.—

- (1) 'ound whole ripe leaves—these are sorted into further classes according to size, viz, large medium and small
- (ii) Over ripe leaves if the quantity is exceptionally large, these are classed into two sizes
- (in) Broken leaves—those damaged by wind or eaten by
- (tv) Green leaves-these are usually discarded

After eurms all the broken green over ripe and mouldy leaves are separated from the rest. The sound leaves are then classed according to pickings size and colour

(3) CANADA

Ten standard grades bave heen adopted by the Ontano Burley Marketing Board for the Burley tobacco each grade being designated by standard symbols

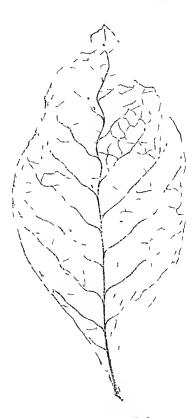
The system of grading fine cured leaf is largely based on the methods followed in the United States of America

(4) UNITED STATES OF AMERICA

(a) Grades—The systems of grading different types of tobace leaf in America appear to be the most claborate and comprehensive Under the authority of United States Warehouse Act and the Tobace Stocks and Standards Are the Secretary of Agriculture has small regarding the classification and grading of unmanufactured tobaceo. According to this official classification all American grown tobaccoss are divided in seven classes. The first the precipient is for which the technol of curing the next three on the present use for which the tobacco is grown and the seventh class covers all missing the property of the property

ellaneous types not otherwise elassified. These classes are
(i) Flue cured types (ii) fire eured types (iii) air cured types
(iv) eigar filler types (i) eigar hinder types (ii) eigar wrapper

types and (iii) miscellaneous types



Indian Virginia Flue cured Leaf Standard Grade No 5

All tobaccos imported from foreign countries like Cuba, Sumatra, Java, Philippine Islands, etc., are classed separately so that the foreign types practically form the eighth class

It is the first six classes which are important from the point of view of internal and international trade. Each class is sub divided into types. A type is defined as a division of a class of tobacco having certain common characteristics which permit its being divided into a number of related grades. The first six classes cover 26 important types with 2 to 6 types in each class. Of the 26 important types grades have been published for 23 types.

Under each type, tobacco leaf is graded on the hasis of 4 factors --(i) Group, (ii) Quality, (iii) Colour, and (iv) Length

Group which is a sub division of a type, is very largely based on the position of the leaf on the plant There are from 4 to 6 groups in each type Standard symbols for group names have been prescribed and for the flue cured types these are —

A—Wrapper, B—Leaf, C—Cutters, X—Lugs N—Nondescript, S—Scrap Under the Tobacco Stocks and Standards Act the leading dealers and manufacturers are required to report to the United States Department of Agriculture quarterly their stocks of leaf tobacco divided by trpe and groups of grades

The next sub division divides each group into qualities. The various degrees of quality, from 1 to 6, are based upon factors like cleanliness, soundness, smoothness, texture, elasticity, oil, wax, cleanliness, soundness, texture, classicity, oil, wax, cleanliness, soundness, texture, classicity, oil, wax, cleanliness, soundness, texture, classicity, oil, wax, cleanliness, second to their importance in the particular formity, damage, etc, according to their importance in the particular group. The terms used to describe quality are —Choice Fine, Good, group. The terms used to describe quality are a denote these terms are numerals from 1 to 6

The importance of colour varies with different types. In types, like the flue cured in which colour is of sufficient importance to be shown as a part of the grade description the several shades of colour are designated by letter. Some of the important colours are II—light, F—medium, R—red, D—dark. G—green and VI—mixed In the flue cured class, the lights are lemon coloured, the mediums are orange coloured and the darks are mahogany coloured.

For types in which \$120 is an important consideration, standards of length have been established and published Several lengths, of commonly known as sizes, are designated by different series of

numbers

A complete tohacco grade symbol, with the four grade factors, by group, quality, colour and length arranged in order, forms a code by group, quality, colour and length arranged in order, forms a code by which a specific grade is indicated. The code system conforms to which a specific grade is midicated. The code system conforms to trading practices, makes for brevity and facultates commercial transtrading practices, makes for brevity and facultates commercial transtrading practices, makes for brevity and facultates commercial transition. For example, the Grade B5F43 (of type 21) refers to wrapper tohacco, second quality Grade AZL (of type 11) refers to wrapper tohacco, second quality

and lemon colour $\;$ In flue enred tobacco alone, there are four types and each type has got 65 standard grades

The primers purpose of the Federal standards is to furnish the basis for walehouse inspection and marlet news service to growers. The Federal standards have also been adopted for the purposes of future trading

The Gooding service—The Lintel States Department of Agn culture in conferation with State agencies his made the Tobacco Inspection Service in inhibited to growers at a few markets to deferning wither by not rung the crivery as to the grade of their produce the at in mail evistem would be improved. The inspection entire in the conference of the inspection and certification of the grade of tobacco before sale at auction marices. Parked tobacco is so inspected and the grade certified upon application by interested parties.

The general procedure of the grading or inspection service is that the grower delivers his leaf at any warehouse he may select where it is weighed and arranged for sale on flat baskets A warehouse ticket is placed on the lot and this shows the name of the seller and the weight of leaf in the lot Space is provided on the ticket for the name of the buyer and the price at which the leaf is sold. It has also a space in the corner, where the official inspector poits in the type, grade and signs himitial. The warehouse ticket then becomes a grade certificate and shows the type of tobacco as well as its group quality and colour by the standard symbols. When the auction starts on each lot, the grade of the lot is announced for the information of all the partise concerned.

The official grading inspectors are removed as completely as possible from influences calculated to sway their judgments in grade determinations by making them completely responsible to the United States Department of Agriculture or to the Federal and State Departments of Agriculture if the grading service is handled jointly

One or more copies of the grade certificates issued by the official grader are filed in his office and when practical other copies may be distributed to interested parties

Another kind of certificate issued by the official grading inspector is the inspection certificate which is given when packed tobacco leaf is inspected. The certificate shows, (i) the date of certificate, (ii) the location of tobacco (iii) the kind of package (iv) a number or other symbol by which the package can he identified, (v) the type, grade form and condition of the tohacco (ii) a statement to the effect that the certificate is issued under the Act and (vii) the signature of the official grader. The original certificate immediately upon its issue, is delivered or mailed to the applicant for whom the grading was done and copies are supplied to interested parties who have purchased of sold the tohacco. Copies of the certificate are filed in the office of the official grader as in the ease of grade certificates.

[Classification, grading and standardisation.

INTER-CHAPTER SIX

In the United States of America where the production and marketing of tolacco is carried out on an enormous scale, an elahorate and comprehensive system of grading has been established under the United States Warehouse Act and the Tohacco Stocks and Strudards Act. The primary purpose of the Federal Go eniment standards is to furnish the basis for warehouse inspection and a market news service for growers. The standards have also been adopted for the purpose of "future" trading and for securing advances against stocks.

In the United States, tobacco is divided into seven classes, three being of eigalette leaf, viz, flue cui cd file cured and air-cured, three of cigal leaf, viz, fillers bind ers and wrappers and one miscellaneous. The first six classes referred to are divided into 26 types largely on the basis of size of leaf, and each of these types is again sub-divided into groups which depend mostly on the position of the leaf on the plant. Each of these groups is further sub-divided into six qualities according to texture, freedom from damage etc, and in the case of cigarette leaf, is further described according to the colour. Standards of length have been defined for types in which size is an important consideration.

All the American tobacco belongs to the Nicotiana Tabacum species In India, as has already been observed there are two distinct species, viz, and tractional Rustica each having quite distinctive characteristics. These constitute the first two main divisions in any system of classification. The bulk off the tobacco grown in India can, however, be subdivided into classes which are in the main characteristic of the leading centres of production. There are 16 distinct classes of Nicotiana Tabacum and 4 of Nicotiana

Rustica, but in considering the possibility of introducing standard grades in this country at an early date, it is perhaps only necessary at this stage to bave regard to about 8 classes of Nicotiana Tabacum and 4 of Nicotiana Rustica

For the time being, until the subject has been further studied it would be better to omit consideration of the two classes of but tobacco, viz., Gujerati and Nipan, which are reduced to powder form before being sold Similarly powder and ropes of Calcutta and any form of tobacco where the product consists of the whole plant may also be omitted

This leaves for consideration the following classes Virginia (both flue cured and sun-eured) and Natu (sun eured) eigarette leaf as grown in the Guntur area, Mysore, Saharanpur, Jhansi, Satara and in small patches elsewhere, Usikappal and Monnakappal for eigars and cheroots as grown in the Trichinopoly, Combatore and Madura districts, eigar leaf grown around Rangpur , the Jati, particularly the Bhengi variety as used for cheroots and the remainder of the Jate grown in North Bengal and Cooch Behar areas for chewing and hoohah , Desi tohacco scattered throughout North Bihai, United Provinces and Punjab as used for hool ah and chewing All these seem capable of being marketed on the basis of standard grades The grading of Mysore chewing tobacco and of the Meenampalayam tobacco as grown in Combatore district for chewing would also seem to be possible Certain classes in the Nicotiana Rustica group deserve consideration and the possibility of establishing separate grades for chewing and hookah in each case needs examination The following are the important classes Motihari as grown in North Bengal and Cooch Behar areas, Vilayati of North Bihar, Calcuttia as grown in the United Provinces, Punjab and Delhi where it is marketed in the form of leaf and not

as powder or ropes Finally Nasuari tohacco as used for making snuff in the North West Frontiei Province might also be dealt with

Statutory grades for cigarette leaf have already been pre-cribed under the Agricultural Produce (Grading and Marking) Act 1937 which define the grades on the basis of colour, texture and freedom from blemish. There are five grades of Virginia flue-cured which range from bright lemon in No 1 to dull vellow with greemsh tinges in No 5. The texture ranges from fine to coarse and thin. First grade leaf must be practically free from blemish but the fifth grade may have brown patches and affected to some extent with sponginess and scalding

Physical standards corresponding with the piescribed grade designations are drawn up by the Indian Tobacco Association with its headquarters at Guntur In the first year the grades were introduced, 75,000 lb were exported to the United Kingdom market as an experiment and in the second year it is estimated that 375,000 lb, would be despatched

Grades have been similarly defined under the Act for sun cured Virginia and sun-cured Natu (country) tobacco. The former ranges from bright to dark brown in colour and the texture good or medium. The latter ranges from bright to dark in colour and from good texture to leaf with a heavy body.

Vo attempt has so far been made to grade any of the other classes of Indian tobacco. Those used for cgar leaf, might be graded on the basis of colour, texture, size and freedom from blemish. At present, for example, a few merchants and manufacturers of such leaf grown in Rangpur already sort the leaf into 4 grades and it seems worth consideration whether these could not be standardised.

The greatest possibility of standardising grades of cheroot tobacco appear to exist in the case of jah produced in Rangpur and Cooch Bebar areas of North Bengal The main factors in this case are colour, size and the extent of brown spots on the leaf Each of these quality factors however, has a different degree of importance in different markets. It would, therefore, be necessary to study specially the requirements of the principal markets for this leaf, Burna, for example

For hookah and chewing tobaccos which are sold in the form of leaf the nati tobacco of North Bengal should afford scope for the standardisation of grades but the desi tobacco of North Bihar and United Provinces should also be taken into account In North Bihar for example the middle leaves (Murhan), the top leaves (Raint), the bottom leaves (Chhabua) and ration leaves (Doon) would each seem capable of being sorted into three grades in accordance with colour and texture Size, however, might be regarded as a secondary factor

The jate of North Bengal and the dess of Bihar and United Provinces could also be graded and packet

Umted Provinces could also be graded and packed separately for ebewing purposes and the possibility of grading the more expensive Meenampalayam chewing tobacco of Coumbatore district might be tried out. In this case apart from body, taste and pleasant aroma the quality is very largely determined by the amount of white bloom on the leaf surface and by the colour There seems scope for the introduction of at least three or four standard grades.

In attempting to grade the different classes of tobacco falling in the *Nicotiana Rustica* species the main factors are strength, texture and colour and the different classes of lear might well be graded on the basis of those factors.

Suggestions in regard to grading meet with opposition owing to the fact that some growers and merchants

feel that it pays to dispose of as much earth and lubbish as possible with the tobacco. Where this view prevails any individual effort to laise the standard of quality by introducing grades is perhaps not likely to prove profitable. On the other hand the experiment would be well worth trying.

The demand for tobacco and the price it commands very largely depend on the quality and in the interests of the growers in the chief areas of production, it is essential to enhance the reputation of the locally grown tobacco. This can only be done by the introduction of standard grades which would be adhered to by all concerned.

It is perhaps interesting to note that although standard grades have only been in operation for cigarette tobacco in the Guntur area for less than two years, there is already a large body of opinion amongst growers, merchants, exporters and manufacturers that it would be to the advantage of all of them if steps could be taken to ensure that all the cigarette tobacco grown and exported from that area could be graded and marked in accordance with the provisions of the Agricultural Produce (Grading and Marking) Act

The importance of this attitude should not be lost on the growers and merchants concerned with the production of different classes of tobacco in the other main producing areas throughout India and Burma

CHAPTER VII -STORAGE AND STOCKS

A -Importance of storage

The production of tobacco is seasonal while the demand is spiced over the year. It is therefore necessary to store tobacco and it is required for consumption. The storage of tobacco has also an important bearing on its smoking quality. In the case of eigenfeit tobacco for cymple, it is considered essential to keep it in store for some time till it becomes mellow and fit for manufacture. After the cigarette leaf is reduced it is packed in hogsheads, bores of bales and i opt. I store for ageing. It is desirable to allow the leaf on meture is fineer, before it can be used in the manufacture of good quality of it the During storage the leaf undergoes for mental in vit. It has telleaf removes its rawness and bitter most better the olium and develops aroma. The leaf is as a rule not considered is fifteently matured for use in the manufacture of good quality eigherest that father about 24 months? storage.

Ageing is also important in the case of brid tobacco. Well known imifactures of brids consider that brid tobacco should be aged at least tor 6 months before using it in the manufacture of brids afgeing is supposed to decrease the harshness of tobacco without affecting its strength to any appreciable extent. It also improves its burning quality. In the Nipans area of Bombay Presidency the quality of Aspara and Akol bris tobaccos goes on improving after about 6 to 12 months storage while that of Viryi and Pandharpur brit tobaccos improves after about 8 months' storage In the Gilperst area the bris tobacco is considered to improve in quality after about 6 months' storage.

In the manufacture for hookoh purposes newly harrested tobacco is considered harsh Most of the wholesale tobacco merclands and hookah manufacturers therefore store their tobacco stocks for about 6 months before using them Even the tobacco growers themselves very seldom use newly harvested tobacco before it is sufficiently aged. Whenever they have exhausted the previous year-eron and are forced to use fresh tobacco leaf from their fields for smoking the cultivators of Guperat resort to a make-shift derive which consists of putting fresh tobacco in an earthen vessel which is then consists of putting fresh tobacco in an earthen vessel which is then consisted from their fields for smoking as it partially loses its barshness is then considered fit for smoking as it partially loses its barshness.

In Burma also most of the merchants and manufacturers age their tobacco before using The tobacco improves in quality on storing and is said to have the best smoking quality after it has been in store for about 4 to 12 months. The quality of the lower grade tobaccos he ever deteriorates after about 8 to 10 months; storage

B-Methods of storage

(1) IN VILLAGES

finder the existing system excepting a few well to do growers many of whom are also merchants the cultivators of tobacco as 2

rule, do not store tohacco before sale for any appreciable length of Apart from the pressing need for cash on the part of most or the growers the most important reason is that without adequate ster ge facilities tobacco, particularly eigarette eigar cheroo, and high quality chewing leaf deteriorates fast in quality especially m colour Since few growers can afford to lave such facilities, they generally prefer to sell immediately after harvest becomes ready for the market during the months immediately pre ceang the hreak of monsoon in June and in the absence of adequate storage facilities deterioration occurs at a taster rate during the mor con months than during the remaining part of the year for this reason that the growers pries or eigenette and cheroot leaf and better quality cleroot and chewing tobac a do not improve on storing The few growers who store are mostly producers of bids and lookah tobacco as in the case of these types deterioration in colour during storage is of little consequence to manufacturers and as the smoling quality improves after storage. As noted earlier in the Supply Chapter even in the case of those growers who can afford to store and holl over the crop transport by cart to it's nearest market or railway station is extremely rishy during the mon oen period since a small shower during transit by cart mig ' spoil the quality of whole cart load of tobacce Hence such people have to wait till late September when the early mousoon period is over. The conditions with regard to the disposal of the erop immediately after harvest in different areas have already been discused under the 'seasonal variation in the flow of market supplies' hut it may be repeated here that the proportion of the farmers' crop that is stored to be marketed after the end of the monsoon late in September or early October is extremely small most likely not more than a per cent of the total

The few well to-do growers who store tobacco to be sold after the end of monsoon usually keep it in one of the living rooms of their hou es or m a part of eattle shed if it is well protected from the sun The floor of the hvno room or cattle shed is cle ned smeared with mud or eow dung and then a small raised platform is prepared on it using either wooden plank, or bamloos or straw. The bon est of using either wooden plants or damed with pall a roofs and a grower merchants are usually well 1 ill with pall a roofs and floors and adequate ventilation A few of such persons particulary from Guntur and Gujerat Lare got their own well built godowns. Leaf tobacco intended for indigenous types of consumption like b dis, hookah, chewing sauff etc i first tied into hundles or hark and these are then arranged in stacks or heaps ove the raised platform The heap is then topped with dry grass or problem leaves which are covered with enumy cloth of mats heaps are periodically disturbed with an interval of about 2 to 5 week and are rearranged the hottom and the middle bundles being brought over to the top of the heap on each occasion powder intended to he used for kookah is simply heaped on the floor and the heap is covered with gunny or other cloth Superior quality hookah tohacco nowder and all bidi tohacco nowders are first filled in gunny hags which are then stacked one over the other in the store room The bags are re arranged once a fortnight or a month, the bottom bags coming on the top

But even in the eise of small growers tobacco is required to be stored at least for some time before, it is sold and the period of storage may range from a few days to a few weeks. Such temporary storage is done by the growers in their own fields either under the shade of a tree or a thatcher dool. If the period of storage is considerably long and there, is fear of pillerage or rains by storing in open space, the tobacca is carried by the grower to his own house where it is stored in one of the hymg rooms.

In Burma the peasint growers do not experience any difficulty as most of the crop is sold off by about July. In the cise of a few who hold part or whole of their crop in the expectation of better prices the tobicco leaf is stored in basicis which are then arranged one over the other on raised platforms in one of the living rooms of the grower.

(2) In Markers

The storing of tobacco is mostly done by commission agents and merchants in the principal seembling and distribution markets. In Hengol, lither and Orissa the merchants and commission agents tore tobacco leaf in bulse which are arranged horizontilly one over the other in godowns with that hed roofs and mud floors on which plattorms of bamboo or wooden planks are built. In hig markets like Calcutta however the gedowns are well built with pakke floor and rool. In storing tobacco the merchants take particular caro to pratect it from the sun and the rains. The tobacco bales are disturbed pictudefully particularly during the monson months. In most cases the godowns belong to the merchants and commission agents themselves.

Commission agents and the merchants in the Bombay Presidency usually have their own godowns which are well built and adequately protected from the sun and the rains. In these godowns their own tohacco is stored but in the Nipani area there is a system by which the commission agents store tobacco of their clients who are in most cases petty village merchants charging them godown rent At Nip in the godown charges are half an anna per bag of tob ieco per month and in addition 2 annas per eart of 16 bags are charged every time the higs are turned over in the godown. The charge for turning over the bogs is locally known as ferwamani feruamani is done every 2 or 3 weeks but sometimes even at shorter intervals during the monsoon. At Sangli godown charges are 1 of levied by the commission agents from their clients for 1 month's storige but afterwards the charges are 9 pies per bug per month, hesides the ferwamans charge of 3 pies per hag on each occasion the hags are rearranged At Nipani generally no insurance charges are mule but at Sangli an insurance charge at 4 annuas per cent is made for any period after harvest till about October. No insurance charge is, however recovered if the tobacco is kept in store for only one month At Jayungpur, the godown charges work out at 8 annas per eart of 16 bags per month, in addition to the feruaman charge of 4 annas per eart each time the bags are turned over Insurance charges come to about 4 annas per cent for any period up to a year. It may he, however, noted that these feacinities for storage offered by commission agents in the Nipaui area are in most cases availed of not by the growers but by petty rierchants who cannot afford to have their own or specially hired storage facilities.

In the Guntur area of Madras, the tobacco leaf is stored by the smaller merchants in temporary thatched sheds with kachcha floors The floor is smeared with cow dung and then the tobacco bales are arranged one over the other About half a dozen merchants, however possess extensive godowns which are well built with prika floors and tiled or corrugated iron sheet roofs. In these also the tobacco bundles are arranged one over the other after their arrival from villages. These tobacco bundles are however immediately opened up afterwards and bulked, re-dried pressed and packed into bales, horsheads or wooden cases which are then again stored till they are despatched In the case of Virginia cigarette tobacco the period of storing is small ranging from a month to 4 months depend ing upon the volume of business handled by an individual merchant Country eigarette tobacco, however, has to be stored by the merchants necessarily at least for 3 to 4 months until it is exported to Japan or cold to buyers within the country Merchants in other areas of Madras store the tobacco bales in pakka buildings with tiled or corrugated iron sheet roofs Small platforms of wooden planks or bricks are prepared on the floors. The tobacco bales are arranged on these platforms.

In the United Provinces the merchants and commission agents in most cases have palla godowns with corrugated iron sheet roofs where storing is made Many of them have their own godowns, while others use hired ones. In Campore the hire charges come to about Rs 100 per month for a godown of the storing capacity of about 5 000 maunds of tobacco The commission agents in addition to storing their own tobacco also let out storing space to their chents a great majority of whom are small merchants only a few being growers. The commission agents charge nothing for storing for a short period usually about a month after this period the storing charges in some of the important markets file Farukhabad Aligarh, Cta's and Agra range from 1 Re to 2 rupees per month for a room of 10' × 10' × 12' dimensions with a capacity of 30 to 40 maunus of telerceo. In Lucknow the charges for the same sized room are. however higher ranging from rupees 2 to rupees 418 per month. In Benares the charges for storing are low and come to about annas 2 per package weighing about 10 mannds

The wholesale merchants and commission agents in the Punjab keep tobacco in guant sacks or bindles which are covered with palim mitting. The bits or burdles of tobacco are irranaed with no principal statem in any available room adjacent to or remote from the shop. Occasionally the room has palle floor but it is more often lackelia with no arrangements for any raised platform on the floor.

In Assam the merchants store tobacco invariably in their own hodowns along with other commodities. Small platforms or corrugated from sheets are placed on the floor before stacking the tobacco bundles.

In Transcore, the merchants store chewing tobacco in faully large rooms provided with palka roofs and floorings usually of bricks and occasionally of cement plaster. The hales of tobacco are arranged one on the top of another to a height of 10 to 12 feet. Bass of bid tobacco re arranged in a unmlar manner.

It Burma the merchants in the assembling centres like Rangooi and Vanasing possess spacious godowns with palke roofs and floors. The cigar and cheroof tobaceus are usually stored in baskets which are arranged one over the other. Sometimes loose tobaceo bales are arreaged one over the other but this system is followed usuall in the case of lower grade tobaceos.

(3) IN PACTORES

Except in the case of eigerettes bidis, cigars and cheroots the binness unit of manufacturer is small in a such small manufacturers, including the small manufacturers of bidis cigars and cheroots who form the majority do not stock large quantities. Such small quantities as are required to be stored are kept in a corner of their small work shop. Bidi and hoo'ah powders are kept in gunny bags while jitties or bindles o tokeco leaves are stocked plad one over the other. In most cases the flooring of the place where storing is done to let if loo' he but there is practically no damage or loss as the stocks are lept only for short periods of about a week, or two till they are used in manufacture.

I he higger factories (bids eigar and cheroot) have godowns which are strongly built with tiled or corrugated from sheet roofs cement or stone flooring and adequate arrangements for resultation. The bids tribacco bags are piled one over the other while eigar and cheroot tobacco leaf is stocked in gunut bales which are arranged one over the other. The tobacco hags or hales are re arranged periodically to prevent excessive fermination by pressure usually once a mouth though the period is shorter during the wet months

Smaller eigarette factories store their stocks under ordinary conditions is in a specially constructed godown with thick brick, stone or concrete walls tidel roof stone or concrete floor and adjustable ventilators. In such godowns the leaf voluceo is stored almost invariably in bales arranged one over the other and the quantity stored ranges from six to twelve months requirements. Such small factories however manufacture only the low quality and chop eigarettes.

The storing of eigarette tobacco for the manufacture of good quality eigarettes is however more elaborate. Such manufactures counciler it essential to leave tobacco in stock for about vienty four months to enable it to mature and it is the common practice for teputed cigarette manufacturers to filled the grawths of different vers to produce an article f uniform quality. During storage the

harshness of tobacco disappears and smoothness in smoking develops The problems of ageing maturing and smoothness in smoling are extremely important in the production of good quality eigarettes and hese can be best solved so far as conditions in India are con corned by storing engarette tobacco leaf in godowns where temperature and hamidity can be controlled. It is reported that one or two of the higger cigarette factories store their leaf supplies under air conditioning arrangements and the leading factories have conmenced recently to store their stocks of best quality leaf in cold store where the 'emperature and humidity can be more effectively con trolled. The leaf is said to maintain its quality for a longer period under cold storage conditions usually with a temperature ranging from 20°F to 60°F and humidity approximately 70 per cent conditions prevaling under such storage lelp to maintain the coour of the leaf-an important factor of all cigarette leaf-unaffected for ove a year and to prevert damage to leaves by insects. There are at rresent two cold stores in India where tobacco is stored one at Calcutta called the Calcutta Cold Store Ltd and the other at Chirala in Guntur District The one at Chirala belongs to the Indian Leaf Tobacco Development Co Ltd The capacity of the cold store at Calcutta is about 600 600 cubic feet of which it is reported that about two thirds is taken up by eigarette tobacco over 90 per cent. of which is said to be Guntur tobacco the remaining heing foreign leaf imported from the United States Great Britain Greece and Turkey The cold store at Chirala was constructed only in 1930 and is understood to have a capacity to store about two million lb of leaf In these cold stores almost the whole of the leaf is stored in hogsheads and cases the former being more common Some of the imported leaf from Greece and Turkey is also stored in bales packed in gunny cloth It is the opinion of leading manufacturers that tobacco matures better when packed in hogsheads and that when packed in bales there is a possibility of waste through breakage of leaf while handling particularly when the leaf is over-dried through in experience

(4) AT PORTS.

There are Government bonded warehouses at the principal ports importung tobacco and tobacco products from abroad eg at Madras Bombay Ca cutta and Travancore

The Madrus port trust warehouse affords accommodation watching and porters services for goods prising through its premises during transit and the hirbour dues are collected at the following rates for every 30 cubic feet of space

	Rs a	P	
I nmanufactured tobacco	2 0	0	
Cigarettes and eigars	3 4	0	
Tobacco dust	3 4	0	
Cut tobacco	3 4	0	
Tobacco sticks	2 4	0	

An additional fee of 21 annas per ton is levied if the goods are definitely given in the charge of the Port Trust. Its sheds are let

out to merchants for storage of their tobacco and tobacco products at their own risk. The charges for the hire of storage rooms vary from Rs 3 12-0 to Rs 4 8 0 per 100 cubic feet per month. Some of the eigarette and eiger exporters avail themselves of this facility

There are only two regular bonded warehouses in Madras belouging to two leading eiger manufacturing firms one from Madras and the other from Dindigul but under the control of the customs authorities. In these warehouses the firms manufacture eigers partly from imported tobaceo under the supervision of Customs ofineds It is reported that about 85 per cent of the eigers exported from Madias are manufactured in these two bonded warehouses.

There are two Government tobacco warehouses in Bombay in charge of the Exists Department with an adequate control of the Customs Department All the tobacco consumed in Bombay passes through the warehouse in Mint Street There are about 90 hecaised warehousemen who have bired accommodation in this warehouse for storing tobacco for consumption in Bombay and other parts of India Cignrettes cagers and both tobacco are stored in it. In the case of tobacco for consumption in Bombay duty has to be paid before it can be removed from the warehouse. The quantities of country foacaco imported into the two warehouses for consumption in the city and distribution to other places during seven years ending 1398 37

were as follows -Vegr Quantities in maunds. 1930 31 1,26,453 1931 32 1,65,835 932 33 1,04,976 1933 34 1.65,776 1934 35 1,79,074 1935 36 1,72,020 1936.37 1,03,930

The other warehouse is in Clive Street where mostly unmanulatured bid, and hooleds to beheese are stored. Most of the tobucco stored is for export abroad. Local commission agents who have taken the rooms of the warebouse on bire charge the exporters S annas per bidle for temporary storage till the robucco bales are exported to Aden.

The number of tobacco biles exported to Aden through the Chive Street warehouse during seven years ending 1936 37 were as-shown helow —

wn below	_
Year	No of bales
1931	3,746
1932	4,654
1933	5,976
1934	4,768
1935	7 421
±936	16,074
1037	12.934

Each hale is equal to about 9 maunds in weight

In Bengal there are a number of ports and Government bonded firms and a very large number of these are under the control of the Bengal Bonded Warehouse Association Ltd Tobacco is stored only in three of the several warehouses of which one is entirely leased out to a cigarette firm Tobacco for which duty bas not been paid is kept under the control of the Customs Department while free and duty paid articles remain with the Bengal Bonded Warehouse Association The storage charges cellected by the Association are as follows —

Tobacco	Rate per month			
	Rs A. P			
A case or a cask	0 5 0			
Space occupying 10-cu ft	0 8 0			

In the Garden Reach A Warehouse in Calcutta compartments are let out at the following monthly rates of rent —

	253
Ground floor	100 per 1 000 cu ft
1st floor	85 Do
2nd floor	*0 Do
3rd floor	60 Do

The rent is chargeable as soon as the accommodation is engaged or goods are brought within the premises of the warehouse. It is levied on the basis of a month or part of a month the shortest broken period for which it is chargeable is quarter of a month

Vany municipalities in the Mysore State possess bonded ware houses where tobacco is required to be stored by merchants and rann.acturers pending payment of ceiror duty levied by municipalities. The Bangalore city municipality for example owns a warenouse where merchants and manufacturers can store their tobac of free of charge on condition that a merchant or manufacturer removes from the warehouse at least 240 lb of his tobacce every month after paying the requisite cetror duty. In other cases the remiciargia is Rs 4 per month per room of about 12 ft × 10 ft × 12 rt size. The rooms in the warehouse are locked and sealed in the presence of the merchant or manufacturer and the octro-officer

In Travancore State there are four tobacco bonded warehouses or lankshalls. The names of these bankstalls and the kinds of these bankstalls and the kinds of these bankstalls are the kinds of these bankstalls.

tobacco bonded in each of them is given below —

Name of bankshall Types of tobacco permitted

	to be bonded			
Kottar	Tinnevelly Combatore a			
Travandrum	Coumbatore and Jaffins.			
Quilon	Do			
Alleppey	Do			

These bankshalls are controlled by the Style Government. They provide accommodation on rent for storing tobacco at the sole risk of the merchants who are all licensed by the State authorities. Any one desirous of bon line tobacco in a particular ban shall has fir to obtain a license authorising him to do so. Each bale is given a

registered number and this and the net weight are marked on the bale with tar. Duty on tobaceo is collected when it leaves the banishall on the weight recorded on entering it. The godown read per bale of tobacco weighing about 75 lb in the case of Jaffan tobacco and 100 lb in Tinnevelly and Combatore tobaccos bonded in bank shall per month or traction thereof is one anna and six pies for Tinnevelly and Combatore tobaccos and six pies for Jaffan tobacco

The total quantity of each of the different kinds of tobacco bonded in Government bankshalls during 1933 34 and 1934 35 is shown helow—

1933 34	1934-35
657 50	
6,464	5 253
2 542	3,909
9 663	9 663
	657 6,464 2 542

The quantity of tobacco subject to Justoms duty imported into each province of British India which remained in the Customs bounded warehouses on the 31st March during 1928 29 to 1933 36 is a given in the Appendix LXIII The quantities given in the state ment do not include the stocks curried in the bonded warehouses in Transaccier

The statement shows that there was an abnormal use in the quantity of tobacco in bond in India in 1930 31. In 1931 32 the sto ks declined considerably but maintained very nearly the level of 1929 30. The quantity went on contracting till 1933 34 but it ross considerably in the following sear and declined grain in 1935 56.

In Burma the quantity declined steadily till 1931 32 when there was a sharp full to 3 356 lb as compared with 110 881 lb in 1930 31 1932 33 witnessed a recovery but the quantity sgain went on declining till 1934 35. There was a good rise in the quantity in the bond in 1935 36.

C-Insurance of tobacco warehouses

It is not the practice with growers and merchants in India to merchants who insure their tobacco godowns there are only a few merchants who insure their tobacco godowns there is not a single grower insuring his tobacco store. Almost all the cigarette factories get their tobacco store and factories maxred

In Madras the insurance of tobacco warehouses is done to some extent at Guntur at the following rates charged by an insurance company

- (t) For fire proof or palla godowns at 31 annas per Rs 100 per annum
 - (a) For second class construction at 5 annas per Rs 100 per annum
 - (in) For third class thatched buildings at Rs 1-4-0 per Rs 100 per annum

For short periods rates are as follows -

1/8 annual premium Period not exceeding 10 days Period not exceeding 15 days 1/6 annual premium Period not exceeding 1 month 1/4 annual premium Period not exceeding 2 months 3/8 annual premium Period not exceeding 3 months 1/2 annual premium Period not a ceeding 4 months 5/8 annual premium Period not exceeding 6 months 3/4 annual premium

Period exceeding 6 months annual rate

The rates of insurance charges levied by another insurance company are slightly different. The company levies the following charges -

Premium per annum Building (per Es 100) 3 annas Class I 4 аппаз.

ClassTII 1 rupee

Class II

An extra charge of 25 per cent is levied for risks taken outside municipal limits. If there are kachcha or thatebed sheds within 50 feet but beyond 10 feet an additional charge of one anna is levied per every Rs 100 worth of tobacco insured, if within 10 feet, the additional charge is 2 annas per Rs 100 per annum.

In Bengal the insurance charges for tobacco are different for Calcutta and mofussil places The charges for tobacco valued at Rs 100 are as under -

	Rate per month at Calcutta		Rate per month in mofussil places			
	Ra	A	P	Rs	a	P
First class, fireproof or pakla godowns	0	4	0	0	4	0
2nd class, ordinary Lachcha or palka godowns	0	в	0	0	6	0
3rd class kachcha (thatched) godowns	1	4	0	0	8	0
4th class kachcha (thatched) godowns				1	4	0

If the period is less than one year the rate is reduced by about 25 per cent

Tobacco transported by boats to the districts of Dacca Faridour and Backerganj in Bengal is insured against loss by fire theft or natural calamities at Rs 2 for Rs 100 worth of goods during the transit period. It is quite a common practice with eigarette manu facturers to insure their tobacco godowns but otherwise the insurance facilities are taken advantage of by extremely few merchants and most of these are large exporters operating in Calcutta and in the Rangour area

In the Charotar (Gujerat) area of Bombay, insurance of tobacos stocks or godowns appears to be conspicuous by its absence. In the Nipani area, however, the practice of insurance is observed to a small extent, the risk covered heing mostly that of fire. It is estimated that about 15 per cent of the tobacco stocks and about one through that about 15 per cent of the godowns in Sangli are covered by insurance. In the Nipani market however, only about 5 per cent of the stocks are insured In Jayasingpur an important tobacoo market in Kollapur State, nearly 25 per cent of the tobacco stocks and 8 to 10 per cent of the tobacco of the stocks are considered by insurance.

D-Losses in storage

It is difficult to estimate losses incurred in storing tobace. The type and location of the warehouse and the varying methods of storage determine to a large extent the amount of wastage during storage in tobacco there is a natural shrinkage in weight due to loss of moisture on storing. There is also deterioration in quality which is indicated by a change in the colour of the leaf, in the case of eigarette tobacco. Apart from these losses wastage may also occur due to dampiess and insect attack. It has generally been observed that tobacco of poorer qualities deteriorates faster and is subject more readily to deterioration of colour and insect attack than tobacco of better qualities.

Under ordinary conditions of storing, Virginia cigarette leaf of the first grade loses colour and becomes second grade in 3 to 4 months' time resulting thereby in a loss of about 2 annas per pound In the course of another 4 months the leaf further deteriorates and becomes third grade involving a total loss of about 4 annas per pound in price It is noticed that the larger the moisture contents in tobacco the greater is the extent of loss in storing. Hence no merchant in the Guntur area likes to store Virginia tobacco for long under conditions prevailing there Re ordered leaf loses in weight only to a very small extent se. 1 per cent in the first year and 11 per cent during the second year if packed in hogsheads or wooden cases and stored under cold storage conditions. Thereafter the weight of the tobacco remains almost constant. There is no deteriora tion in quality in the case of re-ordered leaf during storage. On the contrary, it improves in smoking quality. It has been observed that re-ordered leaf packed in hogsheads or cases is immediately despatched from the Guntur area either for export or to be stored m cold store on behalf of cigarette factories. Virginia leaf packed m bales loses weight and colour to a greater extent Under ordinary conditions of storage the loss in weight comes to about 10 lb 13 lb, 15 lb, and 17 lb per bale (250 lb) during the course of 6 months 1 year 11 years and 2 years respectively, but storing of Virgmia leaf under ordinary conditions packed even in hales is rare, as the merchants prefer to despatch the bales immediately they are ready The country cigarette tohacco however, is stored for a longer period, and the shrinkage in weight, under Guntur conditions, on account of loss of moisture ranges from 5 to 10 per cent in 3 to 4 months' time. In addition, it has been observed

that there is considerable damage by insects to country eigenetic tobacco sometimes to the extent of about 2 per cent. The loss in weight in the case of indigenous types of tobacco grown in the other areas of the Madras Presidency varies from one area to another depending upon the conditions of climate, storage and the quality of the tobacco stored, but it is estimated that these losses in weight amount from 10 to 15 per cent in about 6 to 12 months' time. After 12 months the shrinkage in weight is negligible. The damage by insects is reported to be small being estimated at less than 3 per cent.

In Biha and Orissa the shrinkage in weight amounts to about to 12 per cent during the first year and thereafter there is practically no loss. The damage due to insects is small and estimated at about ½ per cent. In the United Provinces the loss in weight due to shrinkage varies hetween 10 to 22 per cent. During the rains the tobacco gains in weight to the extent of 4 to 8 per cent. But this gain is lost in about 2 months after the monsoon is over It may be noted however that with the gain in weight during the monsoon months there is a corresponding decline in the prices during the period. The damage by insects is estimated at not more than 1 per cent of total production.

In Bombay the shrinkage in weight in the case of tobacco hundles is as high as 25 per cent during the first three months in the Cuperat area. In the case of Nipani and Guperat bull tobacco powders the loss in weight is less than 5 per cent during the first cent months, after which further shrinkage in weight is negligible. The damage due to insect attack is reported to be \(\frac{1}{2}\) per cent, of total production.

In the Punjab under the existing methods of storage tobacoo loses in weight to the extent of about 18 per cent during the first six months after which there is practically no further shrinkage in sight in Sind the loss is estimated at about 20 per cent in all the tricts except Bubol where the shrinkage in weight comes to about 6 per cent only. It is said that the damage by insects in these two areas ranges from 1 to 1 per cent.

In Bengal and 4ssam the shrinkage in weight is estimated at 5 to 10 per cent during the first 12 months, after which there is no further loss. The damage due to ussets is small and estimated at about 1 per cent.

Jafina tobacco in Trainmore shows a driage of 8 to 10 per cent in about 12 months time. In Cochin shinhage in weight vares between 10 to 20 per cent in a vear. In Mysore and Hyderabad the loss in weight comes to about 5 to 10 per cent while damage due to insects is small and estimated at about 55 per cent.

In Burma the shrinkage in weight due to loss of moisture is about 10 per cent from the time the tobacco is put on the market till October From October to March there is a further loss of about 5 per cent thereafter there is practically no loss in weight. The drivance due to insects is estimated at about 1 per cent.

Taking into consideration these varietions from one area to another, it is estimated that fit India the shrinkage in weight due to less of moisture comes to about 10 per cent (or 58,000 tons) of the average annual production. The damage due to insects a estimated at 0.64 per cent of the production or 3,700 tons approximately valued at about 10 klahs of rupees.

Similar estimates for Busma indicate that the shrinkage in weight due to loss of moisture is equivalent to a little more than 3000 tons of the average annual production while damage due to injector. Is estimated at 1 per cent of the production or 440 tous valued roughly at 12 labbs of jugges.

E-Finance of storage

Excepting to a small extent in the Nipam area of the Bombay Prevalency and in a few markets in the Madras Presidency, the storing of tobacco is generally done by merchants and manufacturers on their own capital Banks and shroffs generally do not give advances against tobacco stocks though some of the merchants and manufacturers occasionally raise loans from these sources on the recurrity of real estates, government papers or gold It is understood that one of the ionis stock banks operating in Delhi tried to advance loans against tobacco stocks to merchants in Delhi City, but the proposition had to be given up as the bank did not flat profitable. The conditions are similar in other assembling and distributing centres in the country.

In the Nipam area of the Bombay Presidency, the Belgaum District Central Co operative Bank, has made arrangements to give advance against tobaces otoks at Nipam only These advances are given only through guarantee brokers and on security of goods kept in the possession of the hank. Each guarantee broker who makes himself responsible for advances given against tobacco stocks to the scient of a lakh of rupees is required to give a security of Rs 25,000. The guarantee broker is held responsible for any loss to the bank our account of any reason whatsoever, provided the bank takes necessity steps according to the instructions of the guarantee broker in respect of goods pledged through him. For his services the bank pays to the guarantee broker a commission equivalent to 11 per cent of the interest recovered by the bank on the advances made through him.

[&]quot;The most common sharps; pests of sharco are the constraint of Camodermus exercisors.) and accous easts (Epictus elizated). The capacite bettle has a rude range of foods but is most notorous as a storage pest of tobacco. Eggs are laid in the angle of leaf or along the side of mil rib or other largo veins. Almost the whole demange is caused by the larra which borse through the tobacco in all directions and anskes long, but along the storage is a storage of the same and the same and

persons taking advances have to be responsible for charges incurred to account of godown rent and watching of tobacco deposited in the bank. The godowns are insured and the insurance charges come to about Re 1 to Rs 180 per cent per annum. The rate of interest charged by the bank on the advances is 9 per cent per annum. The maximum advance given is about 50 per cent of the value of tobacco deposited and the maximum period for which an advance is usually sinceined is 8 months. The extent of advances given during the last 3 years is indicated by the following figures.

Year	Maunds of tobacco depo ated	Market value of tobacco deposited	Amount advanced
		Rs_{\bullet}	Rs
1933-34	2,320	50,836	25,050
1934-35	18,272	3 83,839	1,91,135
1935-36	28,103	6,06,294	2,90 942

It would be seen that increasing advantage was being taken by tobasco merchants during thesa three years of the facilities offered by the bank

In a few of the wholesale markets (Tharaku Mandis) of the Madura District in the Madura Presidency, advances are given occasionally by commission agents against tobacco stocks up to about 7a per cent of the value at 12 per cent interest. In two important markets, Palain and Virudhunagar in Madure District, it is estimated that in 1935 about Rs 30 000 were advanced against about 3 000 maunds of tobacco stored with merchants. It is reported that these advances are given only for short periods ranging from 4 to 6 months and the depositors usually do not have to pay any charges excent the interest.

F - Seasonal variation in stocks

The seasonal variation in stocks closely follows the monthly fluctuations in the flow of market supplies. The stocks are at their maximum during the post-barrest months, February to July

In Bengal, the maximum stocks are beld during the months April to June, after which they go on diminishing till they reach their maximum in January and February

In the Charotar area of the Bombay Presidency, the stocks are at their maximum from Mareh to May and reach their low points in November and December. In the Nypons area, the stocks held are high during February to June, the months with maximum stocks being Mareh and April The following figures show the estimated area age monthly stocks held in the Niponi market in 1934.

Fstimated monthly stocks in Nipani

(Thousand maunds)

Jana rv	31	July		87
February	95	August		77
March	Rə	Septembér		68
April	109	October		55
Mav	94	November		38
June	9ა	December		30

The stocks thus reach their lowest levels during the three months, Notember to January after which supplies of the new crop begin to arrive in the market. Similar are the conditions in the other markets of Sanch and Jarasingpur in the Vipum area.

In Bihar the maximum stocks are held in April to June after which they decline procressively till they reach their low level in December January and February

In the Guntur area of the Modras Presidency the Virguna tobaco stocks are at their high level from February to April These stocks almost compareds disappear by May and June by which time they are said off to crarete manufacturers or expruded abroad. The country crearete tobacco stocks are high during May to August after which they slowly decline reaching a loveled uring December to Varch With the manufacturers of concretes also the stocks are at their literiest during April to June in the ease of country crearete tobacco. The leading circarete manufacturers, however attempt to maintuin their stock at as uniform a leve as possible throughout the vear and the general policy appears to be to have on hand stocks equivalent to two vers; recurrements.

In other areas also the stocks are at their maximum during the theore or four months of er he new tobacco crop appears on the market

In Burma high sto k are hold during April to July after which they progressively decline reaching the minimum level about January

G-Carry overs

There are practically no carry overs from one season* to an of the return the growers. But can idering that all types of tobacco are required to be kept in store at least for some months before they can be used in manufacture merchants and manufacturers are required to carry large s'ocks from one vear to another Taking into account the wide variations from one area to another described below it is estimated that the annual earry-overs in India come to about 203 600 tens or 456 milhon b 1.e., about 35 per cent of the

[&]quot;Generally speaking the harvesting of the new erop begins as from 1st January so the end of the season has been taken as 31st December on which date the earg-overs are taken forward.

average annual production of raw tobacco. Of this quantity the carry overs with eigarette manufacturers are estimated at about 25 million lb in terms of raw unmanufactured tobacco, of which about 8 million lb is Virginia eigarette leaf. The carry-overs with Cigar and cheroot manufacturers are estimated at about 40 million lb Abo. (43 million lb of bids tobacco, 274 million lb of hoolah tobacco, 65 million lb of chewing tobacco and 9 million lb of sunif tobacco are estimated as being carried over from one year to another

In Madras roughly about 111 million lb of tobacco is carried over to the next season. Because of the loss in weight and value under the ordinary conditions of storage Virginia and good bright country tobaccos are not kept for the next season. Merchants in Guntur prefer to send their stock of Virginia and country bright leaf to bouded warehouses in London for storage, consigning it to their brokers for sale. While the superior grade Virginia is dis posed of by May inferior qualities such as Virginia brown and red (flue-cured) are held in stock even up to September and October, but they are almost invariably disposed of before the end of the year However in a few cases, some of the better placed of growers in Guntur possessing adequate storage facilities retain their tobacco, mostly the country eigarette tobacco for the next season in expecta tion of better prices. On the whole the growing export demand and the demand from the cigarette factories within the country tend to keep down the carry over of eigarette tobacco which is estimated at 11 million lb only. The annual earry-over of eigar and cheroot tobacco in the whole of Madras is estimated at about 52 million lb It is estimated that during 1934-35 in Madras the carry-over of bid; tobacco was about 8 million lb , while that of chewing and snuff tobaccos was about 40 million lb

In Bengal the earry-over is estimated at about 95 million lb.
In Bihar and Orissa the autual earry overs work out to about 23 million lb. Taking the Bombay Fresidence as a whole, it is estimated that about 15 million lb of tobacco is carried over from our escason to another. In Surat, Javasingpin and Sangh markets the carry overs are about 2,500 maunds 4,000 maunds and 2,500 maunds respectively.

The annual carry-over in the United Provinces, the Puniab and Sind is estimated at 58 million lb, 19 million lb and 3.7 million lb respectively

In Mysore State the carry-overs are estimated at about 9 milion lb and in Baroda at 3 milion lb In Hyderabad the annual carry over is usually about 13 million lb

H -Stocks of Indian tobaccos held in the United Kingdom market.

In the United Kingdom it is the practice of all manufacturers to bold large stocks in the bonded warehouses with a view to get leaf which is sufficiently matured and ged for manufacture, and also to counteract the effects of erratic variations in the annual symptoms and quality of the tobacco crop in the producing countries.

On an average a little over 2 years' requirements are held in stock. The consumption of tobacco in the United Kingdom is increasing and to meet these heavier requirements the stocks held have also increased from year to year. Thus while in 1910 only about 200 million lb were held in stock early in 1937 the stocks were as high as 500 million lb.

So far as Indian tobaccos are concerned the stocks held during the past 5 years ending 1937 have ranged from 25 to 26 million lb or roughly what would be required in about 230 years. In 1936 the stocks held of Rhodesian tobaccos were about 31 million lb or 25 years' requirements as a against 157 million lb or 170 years requirements and 304 million lb or 242 years' requirements of Canadian and Nyassianal tobaccos respectively. The stocks of American tobaccos held at the end of 1936 were about 440 million lb at the end of 1936 were about 440 million the total through the end of 1937 the stocks of American tobaccos declined still further. This fall in the stocks of American tobaccos may be attributed in part to the higher prices and the smaller sizes of United States' tobacco crop. On an average about 21 years' requirements of American tobacco are held in stock.

INTER-CHAPTER SEVEN

The length of the stotage period has a profound effect on smoking quality. For the manufacture of cigarettes, tobacco is considered at its best after about two years. Tobacco for bidis and cheroots should be six to twelve months old but hookah tobacco is sufficiently mature at the end of six months. In the course of storage tobacco becomes mellow. It is highly important to recognise, however, that while good quality tobaccos improve with somewhat prolonged storage the quality of low grade tobacco is apt to deteriorate rapidly particularly after about eight months unless very well stored under controlled conditions.

The method of storing has itself a great deal to do with the final quality of the product Growers have very mademate facilities and tobacco which they hold over is generally kept on the floor of the living room or cattle shed A few glower merchants, particularly in Guntur and Guierat have then own well built pakka godowns, but tobacco is very commonly stacked in heaps which are merely covered with gumny cloth or mats. These hears have to be turned over periodically. The methods of storing by the larger wholesale merchants are on the whole not very much better and systematic storage in special tobacco warehouses is uncommon although in some parts the commission agents have well built pakka godowns where they store the tobacco of their clients for a charge which may range from Re 1 to Rs 4'8'0 per month for a lot of 30 or 40 mannds

When stored under such ordinary conditions the tobrece loses about 10 per cent in weight Damage by beetles and moths is also considerable and is valued at about 10 lukhs of rupees per annum. Further, eigarette leaf held under such conditions loses colour appreciably and first grade becomes second grade in the course of

three or four months time, resulting thereby in a loss of 2 annas per lb In the course of another four months the leaf drops another grade bringing about a total loss of 4 annas per pound in 8 months

These losses in the course of ordinary storage are serious It is found, however, that tobacco leaf, if properly reconditioned, packed in hogsheads or wooden cases and stored under controlled conditions of temperature and humidity loses only about 1 pca cent in weight in the first year, 13 per cent in the second year and then becomes almost constant There is practically no deterioration in colour in such cases and the tobacco improves considerably in smoking quality There has therefore been a definite move in recent years in India to keep tobacco in cool or cold stores with a temperature ranging from 55° to 60°F and a humidity of about 70 per cent Apart from using existing stores special cold stores for tobacco have also been built with a distinct saving in wastage It is desirable that this method of storage, particularly of high quality cigarette leaf should be further extended

The seasonal fluctuations in stocks are related to the times of harvesting and stocks in India are at their maximum during the period February.—July and at a minimum about December just before the new crop comes on the market. The amount of carry over as at 31st December varies appreciably from year to year. Roughly a little over a third of the amount production of raw tobacco is normally carried over. Out of a carry over of about 456 million lb only 25 million lb represents unmanufactured eigarette tohacco, about a third of which consists of Virginia type. Cigai and cheroot lerf carry over is estimated at about 40 million lb. Bidi tobacco represents about 43 million lb, chewing 65 million lb, and snuff tobacco 9 million lb, whereas the normal carry over from one year to another of hookah tobacco.

amounts to about 274 million lb The stocks of imported tobacco beld in bond at the customs warehouses in ports vary from year to year. The amount held in 1930 31 for example was high and the stocks contracted fairly steadily till 1933 34 but have shown a tendency to time subsequently.

Apart from the stocks of Indian tobacco held in India about 25 milhon to 26 milhon ib of Indian tobacco is held in the United Kingdom. This at the present rate of consumption represents the requirements for about 2½ years which is a normal figure for all kinds of tobacco held in the United Kingdom, the total stocks of which were as high as 500 milhon ib in 1937.

The financing of tobacco stocks by the district Central Co operative Bank in the Nipami area of Bombay Presidency shows signs of enterprise. The Bank at vances up to 50 per cent of the value of the tobacco through guarantee brokers at the late of about 9 per cent per annum plus an insurance premium amounting to about Re 1 or Rs 180 per cent per annum. These charges may seem heavy but the business has increased considerably during the past three years. This may be compared with the charges made by commission agents who is the ease advance about 75 per cent of the value of tobacco tared with them at 12 per cent interest Briking facilities for securing advances on tobacco appear to be backward in most districts and in view of the growing importance of the crop the improvement of such facilities needs early consideration.

CHAPTER VIII - HANDLING AND TRANSPORTATION.

A —Handling

(1) ON THE FARM

Bull of the unmannfactured tobacco as sold on farms, where the methods of handling are sample. The leaf tobacco intended for indigenous types of consumption like bidts, hookah, chewing and smill a first tied into hundles or hanks which are then arranged in stacks or neaps over a roused platform. The heap is then topped with dried gras or palm leaves which are covered with gunny cloth or mats. The heaps are periodically disturbed at intervals of about two to five weeks and are rearranged the hottom and the middle bindles bings brought over to the top of the heap on each occasion. Bids and hookah tobacco powders are usually heaped on the floor and the heap is then covered with gunny or other cloth. As alreedy explained earlier in chapter IV considerable quantities of earth get mixed up while preparing hookah tobacco powder in the field Frior to the sale the growers usually stack the leaf or powders on their holdings either under the shade of a tree or under a that hed roof. In the case of eigerettic leaf the growers arrange the leaf in the form of bales immediately after it is taken out of the euring harn or sled. Similar are the practices with regard to eigar and cheroot leaf.

After purchase the leaf is taken by the buyer or the local dala, on behall of the former to the warehouse of the latter where it as generally sorted by different qualities. Sorting work is done by the dalal in secondance with the requirements of the buyer. After sorting the leaf is a merally arranged in the form of a bundle. In the case of hooken and bed tobscoop powders the purchaser provides contain the form of old gannerings in which the powder is filled in at the piace where purchases are made. These bags are then carted at the buyer a expense either to the railway station or to the ware house of the local dalal through whom the purchase was made towards to the the state of the state with the buyers to eart these hags to the warehouse of the local dalal for storage and for further processing as in the case of bad tohace purchased in the Chardrar area. The hales of cigarette eigar and cheroot tobseco are carted by the buyer to bus godown at his own expense.

Handling at the farm is almost invariably done by the grower or the cure and his family and as such the cost of handling is negligible.

(2) AT THE ASSEMBLING AND DISTRIBUTING CENTRES AND RAILWAYS

As explained earlier in the chapter on Assembling the so called distribution where merchants and warehousemen bring tobacco pur chased by them in villages. Even in such eases there is no one cen ral place where the produce is collected in large quantities as happens in the case of wheat or cotton. Generally the warehouse of a ddal or

arhativa serves the purpose of a market. It is the general practice to weigh the leaf on the farm immediately after the price is settled and before it is transported to the assembling and distributing centres In North Bengal and North Bihar areas however sometimes the leaf in bulk is transported by bullocl earts to the warehouse of the local dalal if the distance is short. In such cases the tobacco leaf is neatly arranged in the earls. After receipt at the warehouse the leaf is sorted into different qualities to suit the requirements of individual merchants and bulked and haled afterwards. In the case of hookah tohaceo rowder no faither handling appears to tale place in the assembling and distribution centres. With regard to bids tobacco por ders the coarsely crushed leaves as obtained from the growers are reduced to small sized flakes and this is done either by the buyer himself or by the assembling and distributing merchants. For this purpose the ccarsely crushed leaves are further crushed by hand after which the 'alles are passed through sieves of different meshes the preparation of leaf bundles for eberoot chewing and snuff cured leaves are tied into mali bundles the best leaves being place] up; crmost on the outer side of the bundle and the poorer ones in the centre. The bundles are then haled. In the case of eigarette leaf loose bales as received from the growers are unfied in the pro cess ng tactories and graded into different qualities in accordance with the grading practices adopted by individual merchants and manufacturers. After grading the leaf may be stripped to remove

by the eart men or other labourers employed by the consigness. This work of earting the packages from the warehouse to the railway station and consigning the cases by rail is very often done by a for warding agent (hundekari or marjatua) who charges a fixed sum nor his services In the Charotar area these charges amount to about Rs 180 to Rs 280 per 100 bags while in the Guntur area the amount comes to 6 annas per hale of 200 lbs. In the United Provinces the charges amount to about a rupee per 100 to 125 maunds. In other areas the cest of handling at the railhead comes to about 3 pies per maind

Ih railway sheds are generally covered at all the more import ant loading and unloading stations

Except at outlying sidings is sidings away from stations and belonging to a few egasette tactories and when the special freshift rate quoted is given on condition that loading and unloading will be don by the consignor at the consignee the clarges for loading and unloading, at the railway stations are meluded in the railway freight these services being performed by labour employed by the railway for some railways the labourers engaged in loading and unloading word are paid monthly wages raining from Rs 10 to Rs 22 per month while on others the labour is provided by contractors on rates varying from one rupee to three rupees per thousand maunds. There does not appear to be any complaint regarding handling of the tobacco powder bags get damaged during handling but it is appears to be more due to the practice of using old gamm bags for packing. The damage however is considered neighipible

(3) AT RIVER GHATS

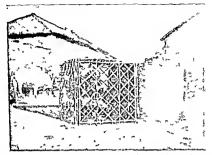
Trade by inland waterways is confined almost entirely to Assam Be ig d Bihar Madras and Trainancore and also Burnor. The loading and urloading of tobacco packages is insually done by cooles whose charges cime to about 3 pies per maund. These charges have to be a 1 by the consignor and consignee as they are not included in the bo hire charges.

(4) AT PORTS

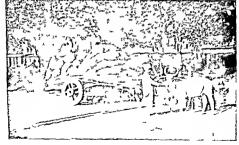
Unmanufactured tobacco is always handled in bales wrapped and fiel in gunny cloth or in wooden cases or hogsheads at the ports and the leading and discharging of sea going vessels is done by machinery

(5) CONTAINERS

Containers used for the transport of unmanufactured tobacco have already been discussed in the chapter on Preparation for Market. In the case of tobacco products eigarettes are first paid et out in this. The packets are then put into a thin eard board box. These eard board boxes or tims are then packed in deal wood cases of varying sizes. High class eigarettes are usually packed in cases we guing about 2½ mainds and continuing about 25 to 30 thousand eighrettes. Sometimes bigger cases weighing 3½ mainds

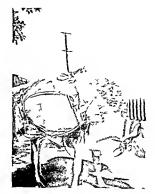


A bamboo crate commonly used in packing vid, in the Central Provinces, along with another packed with biais and wrapped in guinny cloth



A cart loaded with bags of bide tobacco in the Charotar area

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Transport of tobacco by bullocks in the Punjab



Transport of tobacco by donkeys in the Punjab

and containing about 50 thousand eigarettes are used. Cheaper brands of eigarettes are usually consigned in bigger wooden crates weighing 3 to $\frac{1}{2}$ menulos and containing about 50 thousand eigarettes. Some of the high grade eigarettes are sent in smaller packages each weighing $\frac{3}{2}$ eers and continuing 10 thousand ciaraettes. Foreign eigarettes and cut tobaccos are usually consigned in deal wood cases each measuring about $\frac{3}{2} \times 2^{3} \times 2^{3} \times 2^{3}$, weighing about 14 mainths and continuing about 15 mousand eigarettes.

Cigary are first packed in small and thin wooden bose, and occasionally in tins. These boxes and tims are then packed in wooden cases of varying sizes and weights. Some of them measure 2½ × ½ × 1- each weighing about 1½ to 2 maunds and containing 3 to 4 thousand cigars. Small cases measuring about 15′ × 1½′ × 1′ and weighing about 2s seers are also in use

Bidis are packed in various ways. The most common method is to use bamboo crates wherein the bids bandles are put in and which are then covered with a gunny cloth Before putting into the pack ages the bidis are first well packed in paper bundles each containing 500 oids. The bamboo crate is usually cubical in shape each side measuring 2' and weighs about 11 maunds when packed (see plate facing page 250) It contains about 60 thou and small and 40 thousand large sized bidis. The e crates cost about Rs 20 per hundred including the cost of coar used for tring the crate. Some times a thin wire is used instead of coir and in such cases the cost of packing comes to Rs 3o per hundred Sometimes bidis are also presed in slightly smaller sized but stronger bamboo baskets each measuring about 21" in leugth and breadth and 27" in height, to hold about 60 thousand bides and weighing a little over 1 maund. Such baskets cost about Rs 30 per hundred Oceasionally second hand deal wood hoxes are also used for packing bides. Each of these boxes costs about 7 aunas weighs 11 maunds when packed and holes about 65 thousand bidis A few manufacturers pack their bidis in ord uary thick gunny have each holding about 30 the isaud bidis and we ching 21 seers when packed.

Manufactured hookeh tobacco is usually packed in hessian cloth. The sizes and the weights of these packages vary even with the same minufacturer. High class chemin chacco is packed in air tight tims or in bottles while ordinary chemine tobacco is packed in gunny bars, each weighing about a manual. Smiff is usually packed in hars made of title, drill cloth and also in bottles and in tims of various sizes. These bottles and tims are then packed in wooden cases for the purpose of transport.

(6) POSSIBILITIES OF BULK HANDLING

It has been stated before that probably in no other accreditural commodity the question of quality is so important as in the case of tobacco. Its qualitative characteristics often vary from village to village and even from one grower to another. On account of this and the fact that the quality of the leaf is likely to deteriorate by mero exposure without any container, if not by frequent handling the chances of bulk handling or tobacco as in the case of cotton, wheat and linseed are remote

B-Transportation

Transport—its means and cost—is the most important single factor responsible for the development of trade in any country Transport in India is effected by (1) road (2) rail (3) inland waterway, and (4) sea

(1) By POAD

Almost invariable the farms and the villages are connected to aimetabled or lack-he roads or paths either with the assembling at lostributing seathers or with the metalled or 1 alba roads leading to such centres. On afth roads pack animals and carris who the control of conversance not satisfied for carrying tobacco from hodes of conversance the road sistributing centres. Even for us the control of conversance the roads some of the producing areas he far from satisfactor. In the Chroster area for example most of the village roads are Rachola. In far either the considerated his part of the title producing area was the conversance the roads are several unches the hand in the title the roads are had the bullbels pull the earts along these to conversance had be that the bullbels pull the carry along these to roads become impassable to any kind of conversance and the pourner from one village to another

(a) Pack animals and headloads.—The use of pack animals appears to be almost wholir confined to the United Provinces Punjab ann Sind the animals not 1 commonly used being camels pointed donkers and bullocks (see plate facing page 2-1). Pack animals are only used when small loads have to be carried over short distances and on unimetalled and sandy roads where the plying of a carr is difficult. The load of tobacco carried by catalely comes to about 3 to 6 manufa, and by points 2 to 3 manufa.

Human labour for carring tobacco packages as headloads is used for convering small loads over chorter distances say within a miles. It is only in the \(\text{lpon}\), area that fairly large quantities of tobacco are carried as headloads by the \(\text{Uahar}\) who purcha e standing crop in the \(\text{lpan}\) market, it is estimated that about 5 000 manuals of bult tobacco are carried in this, manner by the \(\text{Uahar}\) where \(\text{Vest}\) were year.

b) Carte—The eart is be far the most important convexince for carting unmanufactured tobacco by road. Two-wheeled bullock eart, drawn by a pair of bullocks are the ones used for carting tobacco throughout the country (see plate facing pace 2-0) Occ., ionally four wheeled camel earts are also used in the United Pro nees and the Punjab. An ordinary bullock eart consists of a wooden frame mounted on wooden wheels which are sometimes shod with iron tyres. The use of iron tyres for the wooden wheels appears to be more common in Bombay and Madras. Carts with pneumatic wheels are not used in carrying the tobacco traffic. This is because of the heavy initial outlay the searcity of good metalled.

roads in the rural areas and the fact that the bulk of the road traffic in unmanuta tured topacco is confined to a short period immediately after harvest when the cultivators themselves are free to ply their indigenous carts for hire

The capacity of a cart varies from one area to another in accord ance with the type of animals drawing the cart the condition of roads etc In Benzal an average eart can earry only about 8 to 10 maunds of unmanufactured tobacco but in North Bibar the contents of a cart may range from 15 to 25 maunds. In the United Provinces Puniab Madras and Vipani areas a cart can carry on an average, about 18 maunds of tobacco whereas in Burma a cart can hold only about 9 Apart from small quantities carried by beadloads and pack animals from the producing villages to the assembling centres the volume of which is estimated at not more than 1 per cent of the total production of tobacco in the country all the tobacco in village. is transported by carts to the assembling centres. The distance over which tobacco may be carried by earts varies in accordance with the extent of area served by a particular as embling centre. In the Guntur market for example tobacco is brought in by carts from villages within a radius of about 25 miles. At Palghat market in southern Madras bulloek earts bring in tohaeco even from a dis tance of 60 miles while a distance of 50 miles is not uncommon in otler areas of the Madras Presidency and Mysore It appears however that in the bulk of the assembling centres tobacco is carried by bullock carts from villages situated at a distance not ex ceeding 20 miles

The transport of tohaceo from the assembling centres to the rail head or river ghat is almost invariably done by bullock carts, except in a few areas where the motor transport is available at competitive prices.

(c) Motor transport - The use of motor lorry for transporting tobacco appears to be more extensively adopted only in the Aspani area of the Bombay Presidency The peculiar situation of the Nipani market with regard to transport has helped in the development of this traffic to a considerable extent. Nipani is not a railway station Tobacco from this place has to be railed either at Kolhapur or at Chikodi Road Kolhapur is 25 miles whereas Chikodi Road is 29 miles from Nipani There is however au out agency of the Madras and Southern Mahratta Radway at Japane which arranges for a through booking from Nipani via Chikodi Road The road portion of the journey is done by motor trucks belonging to the railway If tobacco is booked from Nipani tie Kolhapur an additional charge for road transport is taken at the rate of 21 annas per maund Private motor lorries carry tobacco from the Nipani area over fairly long distances Tobacco packages are often transported by motor lorry from Nipani and Sangh to Buapur Dharwar or Belgaum There are about 12 motor lorries for transporting goods from Sangh Kolhapur and Nipani to Bijapur alone each of which charges Rs 32 to Rs 40 per trip carrying about 60 to 80 bags of tobacco. On their return journey the lorries bring back grain and cotton bales from Bijapur expense of transporting a bag of tobacco from Nipam to Bijapur by motor lorry comes to about 8 annas as against 12 to 14 annas when the transport is done by rail. Dharwar is 97 miles from Nipam and it costs only 10 annas to transport a hag of tobacco by motor lorry from Nipam to Dharwar. Several merchants find it cheaper to book Nipam tobacco at Belgaum by rail. The road distance between Belgaum and Nipam is 46 miles and the hire charges by bullock cauts and lot tries work out to about it to a nutus per big of tobacco. The development of motor traffic in the Aipam area is very largely due to the existence of good pakla roads the other factors responsible being that the motor lorries are economical because of quicker transport chepter freight convenience of receiving goods at the godown of the sender and delivering them at the consignee y place and elimination of certing I andling and other charges to and from the railway station. The formalities to be gone through at the rail way station for booking goods are also saved

(d) Aeral coperary—The transport of tobacco by aeral rope way in Devicolam in Transmore appears to be unique. This rope way rises to the height of 4000 feet above sea level. It is owned by the Kannan Devan Hills Produce Co. Ltd. and used principally for transporting tea from the estates on the hills down to the plains Munnar is the chief assembling and distributing centre for raw tobacco in the Devicolam district and gets tobacco from Bodunalisamum in Madura district by means of the aeral ropeway. The cost of this mode of transport works out to about Rs. 19 per ton over a ropeway distance of 28 miles.

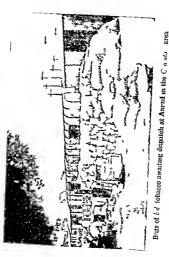
(e) Cost of convenence—The cost of transport by road is pounted by a number of factors such as the condition of roads the availability and the demand for carts season distance covered and the chances of securing loads on return journey. The hire charges on pall a roads are usually lower than those prevailing on lacking roads Generally long distance lausla are cheaper than short distance ones. The live charges during the summer months are lower than those prevailing numediately after the monson sets in

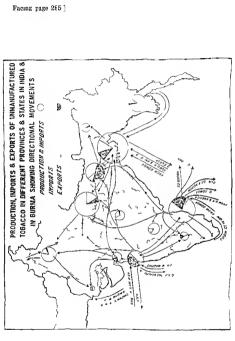
The average eart hire charges come to about 3 to 4 pies per mind per mile. In Bihar and the United Provinces the charges are 18 low as 1 to 2 pies per mile per maund on patkar roads and double the amount on katchcha roads. In Pengal Charotar and Nipori cart hire charges come to about 3 to 5 pies per maund per mile while in the Punjab they come to about 6 pies per maund per mile.

The line charges by motor lorry come to about two thirds or three fourths of the eart line charges while charges for carrying to acco by pack animals range from 3 to 6 pies per maind per mit Libour charges for currying tohacco on headloads vary from 6 to 8 pies per maind per mile

(2) By RAIL

(a) Extent and direction of movement—The bulk of the trade in inautactured tobacco moves by rai! The average recorded imports and exports of unmanufactured tobacco by rail (and river) into and





from the main provinces and trade blocks for the three year period, 1934-30 to 1936-37, are given in Appendix LiXIV and the directional movement illustrated in the diagram facing this page

The annual average recorded traffic in immanufactured tobacco, rail (and river) is 32 30 300 manuds. Of the total quantity exported rom the different proxinces and trade blocks 89 per cent is accounted for by the four main tobacco producing provinces, Madias B har Bombaj and Bengal. The share of Madras comes to 27 per cent of the average exports while the quantities accounted for by Bihar and Origa. Bombay and Bengal come to 28 18 and 16 per cent respectively.

In spite of the fact that Bengal stands aret among the Indian from new with regard to tobacco production the imports of unmanu factured tobacco into Bengal are large as compared with the imports into the other main tobacco producing provinces Bull of these imports are however taken by Calcutta which is a large distributing centre for all trpes of tobacco Almost four fifths of the imports into Bengal are drawn from Bihar and Orissa and about 16 per cent from Madras The recepts from Bihar and Orissa comprise almost entirely of hookah and chewing tobaccos while those from Madras mainh of eigarette leaf Almost three fifths of the outward traffic in unmanufactured tobacco from Bengal goes to Assam and a little more than 30 per cent to Bihar and Orissa. The despatches are mainly of kookah and chewing tobaccos.

The average exports from Bombay Presidency come to about 44 7000 manuds as against 58 000 maunds of imports. Over four-fifths of the exports are taken by Central Provinces and Berar, Central India and Rapputana. A large quantity of eigarette tobacco is imported from Madras.

Madras exports on an average 424 000 maunds while it imports only 59 000 maunds. The outward despatches occur mostly from the Guntur race and Madras and comprise mainly of caractet tobacco exported to Bengal Bihar Bombay Mysore and Hyderabad. The exports to the Central Provinces and Berar consist almost entirely of scraps and rejections from eigenrette leaf from the Guntur area. The imports consist mostly of bids tobacco about 66 per cent for which are received from Mysore and about 9 per cent from Bombay.

About three fifths of the imports of unmanifactured tobacco into Bihnr and Orissa are received from Bengal and one third from Madris Tobacco received from Bengal is mainly of hookah tipe while that received from Jadras is cigarette leaf. Bihar has got a leare outwird traffle the annual average exports being 894000 maunds. About 45 per cent of the exports are despatched to Bengal and about two-fifths to the United Provinces. The other important areas where Bihar tobacco is exported are the Central Provinces and Assam

The average annual traffic in unmanufactured tobacco for the United Provinces is about 478 000 manuds imports and 183000 manuds exports. Nearly three fifths of the exports are taken by the Punjab and about one-fourth by Rajputana. Bulk of the imports

(nearly four fifths) are obtained from Biliar. Over 70 per cent of the imports of nnmanufactured tobreco into Punjab are received from United Provinces. The bulk of the remainder is imported from Bombay and Sind. Exports from the Punjab are small and sent almost entirely to the United Provinces Kashimr and Sind.

- Central Provinces and Bern are almost entirely an importing area About 54 per cent of the imports are received from Bombay and 27 per cent from Bihar Imports from Madras come to about 17 per cent Assan is also an importing province. The average annual imports into Assam come to ahout 193 000 maunds as agait st 13 000 maunds of exports. The imports are received almost entirely from Bengal and Bihar.
- (1) La usaj freight There are three systems of charging rail way freights viz (4) class rates (4) schedule rates and (44) station to station rates
- (1) Class rates —Ordinarily the station to station rates are the lowest freight rates the schedule rates standing in between the elass rates and station to station rates. In looking for the rates of freight charges therefore one has to first find out whether any station for station rate is not applicable. If the station to station rate is not applicable then the schedule rate has to he searched for and in case both the station to station and schedule rates are not found applicable for any station the class rate is then applied. For arriving at the class rates all commodities are divided into 16 classes for each of which the maximum and minimum rates are fixed by the Railway Board as follows.

Clase	Maximum rate per maund per mile (pies)	Minimum rate per maund per mile (pies)
1 2 2 A 2 B 2 C	38 42 46 50 54	100
2 4 4 A 4 B 5 6 6 A 7 8 8	58 62 67 72 77 83 89 96 1 04 1 20 1 87	166

The grouping of commodities into classes is done for the pur pose of arriving at the rate to be charged when no station to station or schedule rate is quoted and for fixing the maximum and minimum rate per maind per mile within the limits of which all rates, of whatever kind, must be kept, subject to exceptions specially authorised by the Railway Board Ordinarily, the maximum rates are charged by the railways, but where class rates are quoted to a figure lower than maximum rates, these are called adjusted class rates.

Indian ununantactured tobacco falls in class 4A for which the tate of freight charged is 67 pie per maund per mile at railway risk. The class rate charged by most of the important railways however, is in accordance with class 4 of the above classification for which rate 62 pie per maund per mile. Imported tobacco is charged at class 3 rates (railway risk) and at class 4A rates (owner s risk), except on the Madras and Southern Mahratta Railway where the freight is charged at class 4A rates (railway risk) and class 4 rates (owner s risk).

Where station to station or schedule rates do not exist eigeneties indian eigers cheroots and bids are charged at class 6 rates at rail way rish. Imported eigers are charged at class 8 rates (railway rish), while ordinary class rates for manufactured hookah, chewing and smift tobaccos and processed bids tobacco are at class 4B (railway rish) and class 4A (owner's rish). Most of the railways, however, charge freight for these types of tobaccos at class 4A rates at railway rish, and class 4 rates, at owner's rish.

(ii) Schedule rates—A schedule rate is a rate quoted on a basis lower than the maximum rate of the class. It may be on a uniform basis such as 2:00 pie per maind per mile or it may vary according to distance or weight on the telescopic (cumulative) principle. A schedule rate may be quoted either per maind or per ton or per wagon On the Eastern Bengal Railway, excepting for small modifications, the rates charged on immanufactured tobacco produced in Bengal are telescopic schedule rates as under—

For the first and up to 150 miles

*380 pie per maund per mile

For extra distances above 150 miles but not exceeding 250 miles to be added to the charge for 150 miles

250 pie per maund per mile

For extra distances above 250 miles but not exceeding 400 miles to be added to the charge

125 pie per maund per mile

For extra distances above 400 miles to be added to the charge for 400 miles

115 pie per maund per mile

The major railways offer concessions for wagon loads of eigarette. For which freight is charged at class 4A rates at railway risk and class 4 rates at owner's risk, provided the minimum weight of the consignment and the minimum distance travelled are 160 manufad and 400 miles respectively. The Beneal Nagpur Railway offers the same concession to bids with an additional condition in regard to packing. Bids must be made up into bundles of 25 and a rain racked in strong untearable cross paper in bundles of 500 and packed in SIGMA.

sound regular shaped gunny packages or strong bamboo boxes (Petauas) and the sender has to make a declaration to this effect on the consignment note

(iii) Station to station rates.—These are special rates for distances between two specific points quoted on the basis of the principle what the traffic can bear meases where the normal class or seacefule rates cannot be profitably applied owing to competition from motor lornes other means of road transport steamers and other railways. In actual practice the Bombay Baroda and Cetral India and the Vladras and Southern Vlastrata Railways have applied station to station rates to a large number of stations in the Charatar Angua, and Gauter acress.

Specimen station to station or special freight rates on unmanufactured tobacco between a few of the important producing and consuming centres are as shown below—

From	To	Railway	Distance (Miles)		s n	ate	ch (ate argo per	be
1 Anand	Howrsh for Agra	B B &	536	Rs	4	P	Rs	A	2
	Cante y	EI	-94						
	i	l .	1 330	4	4	в	1	14	0
2 Nadiad	Do	BB&	547	l					
		Eĭ	794	ļ					
			1 341	4	5	3	1	14	0
3 Nipani (Out Agency)	Sha! mar-Calcutta (114 Chikodi Road	n &s n	789						
ngency	and Waltaur)	BN	545	-					
			1,334	4	9	0	2	0	0
4 Sanglı	Shahmar—Calentta (114 Waltaur)	Masm	835						
		BN	545						
			1 380	4	8	3	2	0	υ
5 Jayasıngpur	Do	M &S M	837						
		BN	545						
			1 382	4	8	9	2	0	0
6 Kolhapur	Do	m &s m	859						
		BN	545	j					
	1		I 404	4	9	11	2	0	٥

Similar concessions of special rates are given for traffic from funtur to Bombay, Andheri, Borivli and Bandra where eigarette factories are located. There is, however, a much larger traffic in eigarette tobacco from the Guntur area to Calcutta and Monghyr to which places special rates are quoted from Guntur and Chirala with certain conditions in regard to the amount of load and handling. The conditions and the special rates quoted from Guntur and Chirala to Shalmar and Monghyr as compared with the calculated class rates are given below.—

ι

From	lated			lated class rate (per		lated class rate (per		lated class rate (per		lated class rate (per		lated class rate (per		lated class rate (per		lated class rate (per		lated class rate (per		lated class rate (per		lated class rate (per		lated class rate (per		class rate (per		class rate (per		ate rge per	d	Conditions
Guntur	Shahmar—Calentta (rsa Tenali and	n &s m	237 \$45	Rs		3	Rs	A	P																							
	(Walter)		782	2	9	9	1	8	7	OR W/200 L and W/120																						
Chirala	Monghyr (114 Naltair and Asan		1							if packed in casks																						
	sol)	BN	605																													
		EI	1,042	s	6	10	2	3	11	OR C/400, I. and W/120 if packed in casks																						
f.antur	Do	изви	253	ļ		1				Casas																						
	}	BN	605																													
	1	EI	164						į																							
			1 022	3	δ	0	2	3	3	Do																						

In spite of these special or station to station rates given by certain railways on Indian numanufactured tobacco it may be observed that the railway freights are not in proportion to the value of tobacco or tobacco products transported. Thus, while a manud of numanufactured tobacco, which may be worth even less than Rs 10, is charged at 62 pie per mile, a maund of cigarettes valued at Rs 140 or even more is charged only at 83 pie per mile. The rate for bulk is the same as for eigarettes though the value of the former may be only about Rs 50 per maund, or just a little over one third the value of the latter.

^{*}OR = Owner a risk C/400 = Minimum configuration of 400 maunds W/120 or W/200 = Minimum wagonload of 120 or 200 maunds L = Owners to load and unload.

To all the three systems of charging railway freights, an addition is made to the freight rates on account of short distance charge which is usually 3 pies per maund for bookings to a distance of less than 70 miles. Further, additions are made on account of terminal charges.

(c) Terms of booling-As soon as the packages containing tobacco or tobacco products arrive at the railway station yard, they are taken charge of by the goods clerk, weighed, labelled and loaded into a wagon Usnally all packages in a small con ignment are weighed. But if it is a wagon load consumment only about 10 to 20 per cent of the packages may be weighed provided all the packages of the consignment are of the same size and weight and it is de-lared by the consignor that the weight of each of them is the same

Charges on account of loading and unloading at the railway stations are included in the freight, except at special sidings of cigarette factories or when the special rate quoted by the railway clearly indicates that the loading and unloading will have to be done by the congruer and the congruer. The goods and delivery clerks are responsible for supervising the loading and unleading work done by the railway cooles. The watch and ward staff of the rail wavs look after the goods awaiting shipment and delivery Generally, all packages are kept under covered goods sheds, but during rush periods when sufficient space in the goods-beds is not available, they are kept in the open on the platforms awaiting loading in the wagons (see plate facing page 2-4) When the packages are lying in the open for a show time tarpaulin cloth may be used as covering to protect the good- from exposure to the sun and the rain.

Indian unmanufactured toba co is generally booked at railway risk except on the Eastern Benral Rahway which quotes chedule rate at owner's risk and on the Madras and Southern Mahraita Ranway was h offers pecially reduced ra es between certain points at owner - risk. Cigarettes cirars cheroot and bidis are normally booked at railway risk. In the cale of cigarettes, however booking can be done at owner a risk also when the consenment is a waron load. Similar conce-sion is given for bids booked by the Benral Narpur Railway in waron loads. Precessed or manufacture l hoolah, chewing, bidi and snuff tobaccos and imported tobacco can be booked either at railway risk or at owner's risk.

Tobacco and tobacco products are invariably tran-ported in

covered wagons On the narrow gauge lines the capacity of a wagon may range from 9 to 11 tons, while on the broad gauge it may be 14 to 24 tons. Generally no in ufficency of the supply of wagons is experienced in any of the important tohacco producing areas.

Domnrage is levied on vehicles ordered and waiting to be loaded hy consignors or on loaded vehicles waiting to be unloaded by consignes when the time allowed free by railways for loading or unloading the con coments is exceeded. Wharfage on the other hand, is levied on goods waiting at a station to be consigned, i.e. brought to the station but for which a consignment no e has not been received or on goods waiting to be delivered after they have been made available for delivery, when the time allowed free by rail-ways is exceeded. The free time allowed before demurrage accures is 9 hours of daylight after which demurrage is charged at the rate of I anna per ton per hour on the capacity of the wagon. The free time allowed before wharfage accrues in respect of consignments waiting to be consigned is generally upto midnight of the day next following that on which goods are brought to the station, and for consignments waiting to be delivered, ranges from 24 to 72 hours according to the nature and importance of the station and the facilities for storage available in the goods shed. The wharfage charges are usually recovered at the rate of 3 pies per maund or part of a maund per day or part of a day in excess of the free time.

Apart from the railway freight, the consignor and the consignee have to spend a small extra amount on account of miscellaneous expenses at railway stations to facilitate booking, proper handling of the nackages and delivery

(3) BY INLAND WATERWAYS

The main attraction for transport by inland waterways is its transport that lower cot. It is however always a slower means of transport than railways, more particularly when country boats are made use of Other disadvantages are that the boatmen frequently tamper with tobacco packages and that tobacco is always likely to be damaged on account of the humid atmosphere and insufficient protection from sun and rain and against water percolating through the seams in the sides of country boats

There are three kinds of inland waterways, str., river, can and backwaters Traffic in tobacco by inland waterways is almost entirely confined to Assam, Bengal Bhar, Madras, Travancore and Burma Bales of tobacco carried by the river steamers are recorded for some stations by the Department of Commercial Intelligence and Statistics, and included in the Rail and River borne Trade Returns published monthly but no records exist of traffic by country boats which handle the bnik of the tobacco traffic by internal water wats

There is considerable variation in the earrying capacity of country boats. In Breggal, a country boat can carry, on an average, about 400 manuals. In Bihar on the other band, the boats are smaller with a capacity of 100 to 150 manuals. In Assam, the capacity ranges from 40 to 300 manuals, while in Burma it is from 30 to 130 manuals. In Travancore, the foots fold on an average fit to 120 manuals of tobacco. Boats of larger capacity are generally used for long distance transport.

Bengal—In Bengal, it is estimated, that about half the produce that is moved by river from the producing to the assembling and distribution centres. At least half the export of Bengal tobacco to Bibar are transported by river, of which about two-fifths are carried by country crafts and the rest by river steamers. The transport charge by country boat from Cooch Behar to Manickguin (about 300 miles) comes to about 5 to 8 annas per maund, with an additional insurance charge of Rs 2 per 100 rupees worth of tobacco.

The freight from Cooch Behar to Jalakatı (400 miles) comes to about 4 to 8 annas per mund in addition to the insurance charge of Rs 2 per 100 rupees worth of tobacco. The steamer freight charge by river from Calcutta to Patna comes to about Re 0119 per maund as against about Rs 110 per maund by rail

Bihar—About a turd of the total traffic in unmanufactured tobocc within the province of Bihar is accounted for by river traffic bulk of which is carried by the country craft. Almost all the work of carrying tobacco from North to South Bihar across the river Ganges is done by country boats. Long distance transport is usually done by river steamers belonging to the India General Steamer Navigation Company or the Bengal and North Western Steamer Navigation Company Generally the country boats charge about half the fare charged by river steamers. For example while the steamers charge about 8 to 9 annas for carrying a maund of tobacco from Patha to Dacea the country boatmen charge only 4 to 6 annas per maund for the same distance.

Uadraz — Considerable amount of tobacco moves along canals of the Kista and Godavari rivers Lanlas tobacco is transported upto Lagahmundry and Coconada while canal traffic as far down a Madraz also tal ates place along the Buckinghan canal Canal transport al o occurs in Guntur to Coconada for export trade. The annual volume of traffic that moves by these canals in tobacco and tobacco products ranges from 3 to 4 thousand tons per year. From Guntur part of the chipments to Coconada are transported by eanal from Chibrole 9 miles from Guntur The railway freight from Guntur to Coconada comes to about Rs. 1140 per bale of 250 lb while the canal transport from Chibrole to Coconada costs only 6 annas per bale in addition to which 2 annas have to be paid on account of cart in refrom Guntur to Chibrole.

Assum—Vire than laff the annual rade as well as the import trade in Assum takes place by river river stemmers being more extensively used for the purpose than the country craft. The imports of tobacco from Bengal and Bhar are very largely effected by river transport. The freight for sending tohacco from Kharupetia to Gaihati about 3 in 640 miles apart by boat and steamer works out at 1 anna and 34 annas per maind respectively. The charges by river steamers from Patha to S, bluet work out at about 4 to 5 annas per maind while from (ooch Behar to Ajmergan) come to 12 annas to one rune per maind.

Trainmore—Trajaneore has over 200 miles of canals and back waters and transport by water dominates other forms of transport Most of the important distributing and consuming centres in the central and north Travaneore get their supplies of tobacco by rail to Brand ulam in Cochin State and thence by bad waters to Travan core. The cost of transport works out at 4 pie per maund per mile.

Burma—In Burma tobacco is mostly grown on river banks and islands and the chief means of transport from the producing area to the assembling and terminal marlets is the country boat earls being

employed, in the first instance to carry tobacco from the cultivators' holdings to the boat The transport charges by country boats work out to about an anna per 360 lb per mile. The rates of freight charges by the river steamers belonging to the Irrawaddy Flotilla Company per 100 viss (350 lb) of tobacco from Myingyam to Rangoon (550 miles) come to Rs 420 while from Henzada to Rangoon (447 miles) work out to 12 annas. The special rate charged by the Burma Railways from Myingyam to Rangoon is Rs 4130 per 100 viss (350 lb).

(4) By sea

(a) Coastal trade—There is a considerable amount of coastal trade in tobacco and tobacco products in all the maritime Indian Provinces and Burma There are two distinct types of coastal trade, one among the ports of the same province and the other from the ports of one province to those of another

The volume of internal coastal export and import trade among the ports of the same province ranges from 3 3 to 3 6 million 10 of tobacco and tobacco products valued at 12 to 15 lakins of rupees Over 70 per cent of this trade consists of unmanufactured tobacco, the remaining being accounted for by tobacco products of which eigarettes account for a third

The bulk of the coastal trade is however inter provincial. The total coastal export trade of the five maritime provinces of India, Bengal Mudras Bombay, Sind and Orissa comes to about 21 3 million lb valued at 125 5 lakhs of rupees (average for 3 years ending 1936 37). Of this volume ummunafactured tobacco accounts for 15 6 million lb valued at 27 8 lakhs of rupees. Export of cigarettes come to about 3 million lb valued at 37 2 lakhs of rupees, while those of other sorts of manufactured products come to 2 7 million lb valued at 13 5 lakhs of rupees. The average total coastal imports amount to 5 8 million lb valued at 49 4 lakhs of rupees, of which unmanufactured tobacco accounts for 6 5 million lb valued at 12 6 lakhs of rupees capacters 0 6 million lb valued at 27 9 lal hs of rupees and other sorts of tobacco products 1 7 million lb valued at 8 9 lal hs of rupees.

Figures of annual average coastil export and import trade in tobacco and tobacco products of the maritime Indian privinces and barrant are given in Appendix LET

On an average Bengal imports 3.8 million ib of Indian un manufactured tobacce chiefly from Bombay and Burna and to a small extent from Madras valued at 5.3 lakhs of rupees. Coastal imports of eigarettes, into Bengal on an average come to 15.0 000 ib valued at 7.9 lakhs of rupees. Bulk of these eigarettes are received from Sind. Madras and Burna. Imports of other tobacco products come to 37.0 000 ib valued at 2.4 lakhs of rupees and consist mainty of bidis, cigars and cheroots from Madras, cheroots from Burna and small quantities of bidis and pipe tobacco from Bombay. Coistal export trade of Bengal is much larger, consisting very largely of unmanufactured tobacco, the average annual exports of which come quantities are also exported to Karach, Kathawar ports Portuguese territory and Trauneore About 269 000 lb of engarettes valued at over 12 lakhs of rupees are exported about half of which are sent to Karachu. A little over a third is exported to Madras while the remainder is shipped mostly to Kathawar ports. Exports of other tobacco products consisting almost entirely of bids, come to about 15 million lb valued at 55 lakhs of rupees. Over four fifths of these exports are sent to Madras the remainder being shipped to Kathawar and Portuguese ports. Travaneore and Bengai

The coastal export and import trade in tobacco and tobacco products in Sind is smaller than that of Bombay Karachi imports on an average about 1 1 million lb of unmanufactured tobacco valued at 1 9 lakhs of rupees About 90 per cent of these imports are received from Burma Bengal and Madras in almost equal shares The remaining portion is received from Bomhay Kathiawar ports Imports of eigarettes on an average 138 000 lb valued at a little over 10 lakhs of rupees received almost entirely from Bombay Imports of other tobacco products con sisting almost wholly of eigars cheroots and bidis come to 90 000 lb valued at 1 o lakins of rupees Bidis are received almost entirely from Bombay while eights and cheroots are chiained from Madras and Burma Sind bas also got a small coastal export trade. On an average about 79 000 Ih of unmanufactured tobacco worth Rs 13 000 is exported very largely to Kathiaw r ports and Bombay Exports of eigarettes come to about 10 000 lb valued at Rs 46 000 about half of which are sent to Bombay while the remainder is shipped almost entirely to Calcutta

Orissa has the smallest coastal trade which consist almost entirely of imports of unmanufactured tobacco which on an average come to about 16,0000 in valued at Rs 14,000

Burma has got the largest coastal unport and export trade in tobacco and tobacco products as compared with any of the five mari time Indian provinces On an average Burma imports about 12 million lb of unmanufactured tobacco valued at 21 7 lakks of rupees Almost 90 per cent of these imports are received from Bengal and the rest from Madras Imports of cigarettes on an average come to 1.8 million lb valued at 22 6 lakbs of rupees. About three niths of these cigarettes are received from Madras and the remainder from Bengal Imports of other tobacco products consisting mainly of cigars bidis and prepared hookah and chewing tobaccos come to about 270 000 lb valued at 2 1 lakhs of rupees Cigars are wholly received from Madras while all the bidis and prepared hookah and chewing tobaccos re obtained from Bengal The coastal export trade of Burma is smaller. On an average about 2 3 million lb of unmanufactured tobacco valued at 2 lakhs of rupees are exported almost wholly to Bengal Small quantities are also sent to Madras and Sind Exports of cigarettes on an average come to 18 000 lh valued at Rs 63 000 Ahout 80 per cent of the "garettes are sent to Madras and the remainder to Bengal Exports

of other tobacco products the bull of which consists of cheroots come to 214 000 lb valued at 15 lal hs of rupees on an average About halt of these exports are sent to Bengal while the halance is shared by Vadras Bombay and Sind

The rates of fre ght on tobacco transported by coastal steamers vary from time to time in accordance with supply and demand. The existing freight rates on numunufactured tobacco from Calcutta and Chittagong to Rangoon range between 8 to 9 annas per maund Certain steamship companies give a rebate of 15 per cent on these rates From Bombay to Coelun and Travaneore ports the present freight rates come to Rs 920 per shipping ton of 20 cwts 10 per cent rebate The freight charged for shipping unmanu factured tobacco from Madras to Calcutta (for bales) and Rangoon (tor bales and eases) is Rs 11 and Rs 32 80 respectively, per ship ping ton of 20 cwts or a0 cubic teet. When tobacco bundles are shipped from Madras to Rangoon the freight charges are Rs 2 10 0 per 168 lb Specially reduced freight rate appears to he given by a shipping company on tobacco shipped from Coconada to Calcutta which comes to only Rs o per ton of 10 cubic feet. The freight from Coconada to Rangoon is Rs 4 per bundle of 168 lb

(b) Foreign trade—This has already been discussed in Chapter I Exports of unmanifactured tobacco are the most important accounting for nearly 97 per cent in quantity and 95 per cent in value of the total annual exports of tobacco and tobacco products to foreign countries Over three fifths of the exports of unmanu factured tobacco occur through the ports of Vadras Boml vy comes for about one fifth while exports from Bengal and Burma come to about 11 and 8 per cent respectively of the total exports of unmanu factured tobacco

Tobacco for export is shipped by one of the regular steamer services. As compared with the exports of some of the other agn cultural products lile cotton jute and oilseeds the exports of tobacco ate small and as such in no case tobacco is shipped in full cirgoes by chartering a whole steamer. It is always shipped in small lots hown as parcels

Ordinarily rates of freight vary from month to mouth in accordance with the supply of and demand for space in vessels. This is naturalized, so it. Simbles, which is a Coor man, it fine foughts At Calcutta and Vadras however the freight rates are determined periodically by a conference of the shipping lines. A rebate of 10 per cent is granted under certain conditions to shippers provided they ship all their consignments by the conference steamers. The rebate is generally given only on exports to the United Kingdom ports.

The rates of freight on unmanufactured tobacco are charged on the basis of volume Almost all the tobacco shipped from Bombay is exported to Aden. The existing freight rates from Bombay to Aden are Rs. 1-40 per cwt for unmanufactured tobacco packed in gunny bags and Rs. 1280 per 10 eubne feet when packed in bales

Prior to June 1937 the rates of freight on tobacco exported from Madras to the United Kingdom ports were as below -

Per 50 cul	bic feet	
Ports	Bales	Casks
	£ , d	£ & d
London	11	0 45 0
Laverpool	0 50 0	0 45 0
Manchester		
Glasgow	0 72 6	0 70 0
Belfast	0 58 6	0 53 6
Southampton	0 62 6	0 55 0
Bristol	0 55 0	0 50 0
Avonmouth		4

From June 1937 to date (June 1938) the freight rates have been as below -

as below —	Per 50 cu	bic feet		
	Ports		Bales	Casks
			£ s d	£ s d
London				
Laverpool		1}	. 0 5a 0	0 50 0
Manchester		- 11		
Glasgow		۲	0 77 6	0 75 0
Belfast		1	0 63 6	0 58 6
Southampton		1	0 67 6	0 60 0
Bristol		1	0 60 0	0 55 0
Avonmouth		1		<u> </u>
			from time	to time The

The freights from Coconada wars from time to time The existing rates to Japan range from Rs 11 S 0 to Rs 14 per ton of 50 cubic feet, varying with different shipping companies and in

accordance with the port of destination while those to London come to about 52 shillings for the same quantity From Madras to Japan, the present freight charges come to about Rs 17 80 per ton of 50 cubic feet Exports from Calculta port are small and freights to the United Kingdon ports range from 45 to 49 shillings for tobacco in bales and from 50 to 55 shillings for tobacco in hogsheads per of cubic feet The freight to Japan from Calculta on unmanufactured tobacco comes to about Rs 20 per 50 cubic feet

The large quantity of Jaffna tobacco imported from Ceylon into Travancore arrives by sea in small sailing vessels (schooners). These schooners are driven by wind and in good weather take about 3 days from Jaffna to Quilon. After stopping in Travancore for 3 to 4 days they carry back fishing cances titles and timber to Ceylon. The capacity of a moderately sized schooner is about 67 from 5 The cost of transport of tobacco from Jaffna to Quilon amounts to about Rs. 15 to Rs. 17 per ton.

[Handling and transportation

INTER-CHAPTER EIGHT

Excepting the powdered bids and hookah tobaccos which, to some extent are handled in bull, on farms, all types of tobacco are handled in containers such as gunny bags, bales, boxes and hogsheads. On account of the large variations in quality, even in the same type, and the fact that the quality of the leaf deteriorates by exposure and frequent handling, the possibilities of bulk handling of tobacco are remote

One outstanding feature of the trade seems to be the frequent sorting and re-sorting of the unmanufactured tobacco at almost every stage. It seems that the necessity for this constant handling to suit the requirements of different merchants and manufacturers could be minimised by the adoption of standards in regard to quality, moisture contents and packing

Most of the traffic m tobacco moves by rail, the annual average traffic in unmanufactured tobacco by rail (and river) being over 32 lakhs of maunds. The railway freight forms a high proportion of the total costs of distribution, particularly in the case of cheaper types of unmanufactured tobacco like hookah and chewing The rates of freight are not in proportion to the value of tobacco or tobacco products transported , Thus, while a maund of unmanufactured tobacco, which may be worth even less than Rs 10, is charged at 62 pie per maund per mile, a maund of cigarettes valued at Rs 140 or even more is charged only at 83 pic per mile The rate for bidis is the same as for cigarettes though the value of the former may be only about Rs 50 per maund, or just a little over one-third the value of the latter

Transport by road is of importance only in areas like Nipam where good metalled (pakka) roads exist

In the Nipam area, merchants often prefer to transport their tobacco packages by road in motor lorries to Belgaum, Bijapur, Dharwar and other places in the south of the Bombay Presidency. The expense of transporting a bag of tobacco from Nipam to Bijapur by motor lorry comes to about 8 annas as against 12 to 14 annas when the transport is done by rail. Even after paying a little extra, merchants prefer transport by motor lorry because of the quicker transport over short distances the convenience of receiving goods at the go down of the sender and delivering them at the consignee's place, elimination of carting, handling and other charges to and from the railway station and the saving of for malities that have to be gone through at the railway station in booking goods.

The competition from rivers, canals and backwaters is confined almost entirely to Assam, Bengal, Bhlar, Madras, Travancore and Burma. Transport by water is cheaper than by rail. For example, the steamer freight charge by river from Calcutta to Patna comes to about Re 0.11.9 per maund as against about Re 1.10 per maund by rail. The railway freight from Guntur to Coconada comes to about Re 1.14.0 per bale of 250 lb, while the canal transport from Cubrole to Coconada costs only 6 annas per bale, in addition to which 2 annas have to be paid on account of eart hire from Guntur to Chibrole. In Travancore, the cost of transport by back waters comes to about 4 pie per maund per mile as against. 62 pie per maund per mile charged by railways on unmanufactured tobacco on the basis of class rates.

There is considerable interprovincial coastal trade, the average total coastal export trade being about 21 3 million lb valued at 128 5 lakes of rupees

CHAPTER IX —WHOLESALE DISTRIBUTION OF UNMANUFACTURED TOBACCO

The movement of the produce from the grower to the wholesaler or manufacturer or the first buyer has already been described in Chapter V on Assembing, after which the next stage in the passing of unmanufactured tobacco from the producer to the consumer is distribution. Almost all the agencies engaged in the assembling of tobacco also function in its distribution.

A -Agencies and methods

The distribution of mmanufactured tobacco is done by one or or of the following agencies (1) Growers professional enters village merchants and moneylenders (2) Commission agents and wholesalers (3) Manufacturers (4) Co-operative societies and (5) Exporters

(1) GROWERS, PROFESSIONAL CUREES, VILLAGE MERCHANTS AND MONEYLENDERS

As has already been explained earlier the bulk of the crop is sold in villages by the growers, professional curers village merchants and moneylenders to the wholesale merchants manufacturers and exporters In all the tobacco producing areas, however, a tew growers sell small quantities direct to consumers of their own and neighbouring villages. Sales of this type are not however, popular with many growers for the reason that besides the demand being uncertain and irregular they are often forced to sell the produce to friends and other acquamtanees on credit Occasionally the growers also sell their produce to retailers at the local fairs and hats and there are a few cases where the produce is carried by the growers over tairly long distances for the purpose of sale direct to consumers small retailers and manufacturers. Thus for example in Bihar it is a common practice with a number of growers to seil a small quantity of leaf every time the local fair or hat is beld and it is estimated that about 85 000 maunds of tobacco is disposed of by the Bihar growers in this manner. In Bombay Gujerat a rev growers from the Sanand taluka carry their tohacco from village to village in their own carts for sale in parts of Kathiawar and Cambay From these people annual requirements of tobacco are purchased by small retailers and manufacturers in Kathiawar and Cambay through the local dalals who take the responsibility of pay ment of money to the growers on getting a commission of an anna per maund. The cartmen proceed on their way distributing tobacco and collect money on their return journey The total quantity of tobacco thus distributed is, however, small being estimated at about 2 000 maunds every year. In the Charotar area also there are a few cases of growers who book their supplies augmented hy purchase from neighbours by rail to Bardoli taluka of Surat district and sell them in the villages of that tract by biring cut earts to visit several villages for selling Similar direct sales to consumers and retailers of small quantities of unmanufactured tobacco are found to be prevalent in the Anjani area, but it appears that the practice of selling to consumers in the annual fairs is more common in this area. Thus at the annual fair of \(\) \text{trans} are instance distinct it is estimated that over 3000 manuals of unmanufactured tobacco are sold by the growers to consumers who assemble at the fair. It is estimated that in the whole of the Bombay Presidency about 10 per cent of the annual production is distributed by the growers themselves to the small retailers small manufacturers and consumers. In other provinces where tobacco is grown on a smaller cale the distribution of the surplus is very largely done by the growers by selling direct to retailers or consumers. Thus, in the Central Provinces and Berar where 90 per cent of the production is almost invariably disposed of by selling to small retailers and consumers in the local village bazzars.

The professional curers who buy green leaf from the growers, almost invariably sell their cured leaf to wholesalers manufacturers and exporters usually in villages. The village merchants and monsylenders also part with their produce in a similar manner but more often in markets.

(2) COMMISSION AGENTS AND WHOLESALERS

The commission agents and wholesalers who make their pur chases mostly in villages through or from the village dala! bank or monetiender form probably the most unportant link in the chain of distribution of unmanufactured tobacco. These agencies assemble and distribution of unmanufactured tobacco. These agencies assemble and distribution of the properties of the total annual production apart from the purchases made directly from villages by big manufacturers. Bull. of the requirements of the raw material ast demanded by manufacturers are supplied by the commission agents and wholesale merchants. It is these agencies who act as stockists and supply unmanufactured tobacco throughout the year.

Vost of the leading commission agents and wholesalers who operate in big consuming centres and leading distributing marsets maintain their own organisation in the producing area which is kept constantly informed of the market conditions. This is particularly so in the case of bids eigenstead of the market conditions. This is particularly so in the case of bids eigenstead of the commission agents and wholesalers they leep their clients regularly informed about supply and price conditions in the market.

(3) MANUPACTURERS

Almost all the leading manufacturers of coarettes and bids make their purchases direct in the villages of production with or without the help of the local dalats in the producing area. The Tobacco Manufacturers (India) Lidi and the Cigarette Manu facturers (India) Lidi make their purchases through the Indian Leaf Tobacco Development Co. Lidi which buys eggrette leaf direct from the growers and profess onal curres either by making contract with the growers and current to which a reference has already been made earlier or in the open market in villages. A few of the other

organette factories also make purchases through their own purchasing organisation which operate in the organette lobacco producing areas. Some of the cigarette factories also send their buying representatives to the producing area during the marketing season for making purchases. Similar are the practices adopted by at least half a dozen leading bid manufacturers in the Central Provinces and Calcutta Almost all these leading bid manufacturers are Gujeratis from the Charotar area. They have extensive purchasing organisation in the producing areas, bid tohacco processing factories and hig workshops for manufacturing bids either in Gijierat or in the Central Provinces or in Calcutta. The other bids manufacturers make their purchases through commission agents and wholesalers operating in the producing areas.

The eight and cheroot manufacturers generally do not have their own purchasing organisation Occasionally however, they appoint representatives who go in the producing area and make purchases on their behalf during the marketing season Bulk of the eight and cheroot manufacturers, however, make purchases on the hasts of samples supplied by their respective commission agents and wholealers in the producing areas. The manufacturers of hooloh, chewing and smill tobaccos make purchases mostly through or from commission agents and wholealers.

(4) CO-OPERATIVE SOCIETIES

As has already been explained in the chapter on "Assembl ing', the quantity of unmanufactured tobacco distributed through or by to operative societies is almost negligible

(5) Exporters.

As discussed in the chapter on "Supply" over 98 per cent of the average annual exports of tobacco and tobacco products consist of unmanufactured tobacco. Over four fifths of the average annual exports of unmanufactured tobacco occur through the ports of Madras and Bombay Presidences and as such all the leading exporters operate in these two areas. The principal destinations where numanufactured tobacco is exported are United Kingdom Aden and Dependences and Japan which together account for over three fourths of the annual average exports.

(a) Exports to the United Kingdom—Almost the whole of the unmanufactured tohaceo exported to the United Kingdom is from the Guntur area of the Madras Presidency—All the exporters uncluding the Indian Leaf Tohaceo Development Company who operate in this area male their purchases direct from the growers and curers—So far as the Indian Leaf Tohaceo Development Company are concerned distribution of tohaceo is a simple matter, asther supply the raw material only to their own manufacturers—in India and England—Most of the other exporters ship their tohaceo packages to their agents in England on consignment hasis—Some of these agents are often mere shipping agents and not dealers in Litoria. tobacco As such they are not well conversant with the market requirements but usually are more eager for the settlement of their bills. Other agents are professional brokers and leaf merchants

Immediately on arrival in England each tobacco package is sampled by the dock authorities the weight of the sample taken being 4 lb All tobacco packages are held in bonded warehouse until sold by the leaf merchants or brokers. The buyer, 1e, 16 manufacturer then becomes responsible to His Majesty's Customs without facturer a permit is granted by His Majesty's Customs without which no tobacco is allowed to be stored in the manufacturer aprenises. The terms and conditions under which tobacco package can be taken away from the bonded warehouses are laid down by His Majesty a Customs Manufacturers who buy tobacco are responsible for its transport from the warehouse to the factory

Obarges at the bonded warehouse vary slightly at the different ports and comprise of those for receiving tobacco, sampling and storage for 12 months from the date of import. Such charges are defrayed by the Indian exporter except in the case of an order from a manufacture on a c 1 f basis.

The usual rate of commission charged by the leaf broker when selling tobacco on consignment basis is j per cent calculated on the gross invoice value Advances may be made against shipments the security being shipping documents obtained at the time of export from India

It may be stated that the tobacco leaf exported to the United Kingdom on consignment basis is mariably purchased by manufacturers outside the combine of the Imperal Tobacco Company of Greet Britain and Ireland Linuted These manufacturers usually do not import direct but look to leaf brolers and merchants in England for their supplies of the various grides and types irrespective of the origin By this means they see from samples submitted from bond what they are going to get They are not called on to make advances and are not bothered with any disputes and irribitivitions.

As mentioned above the charges for storing tobacco packages in the bonded warehouses appear to be the same for one day as for one year. There is therefore a possibility of a leaf broker in the United Kingdom of raising a loan against the stocks bying in the bonded warehouses though no definite evidence is forthcoming out the point. Some of the Indian exporters from Cinitir identication of the their receive from their agents in England advances up to should 70 per cent of the value of their exports at 6 per cent interest but allege that the English agents in their turn raise money against the tobacco stock at a lower rates of interest. They further complain that in the absence of any control over sales of tobacco in the English markets as all sales are done by private treaty they have to depend entirely on what their London agents write to them and that they have no other source to know whether ther consignments have already been sold or are still lying in the bonded warehouses.

It is however a fact that apart from the correspondence they have with their English agents, the Guntur exporters have no way knowing the ruling prices of Indian tobaccos in the London and Laverpool markets and in consequence they have to accept what ever the agents offer them It may, however, be stated that the exporters from Guntur and with each consignment their minimum valuation genort to their agents in England and that the English agents never sell the goods without their consent if the prices offered are lower than those specified in the valuation report. There appears to be however a common feeling in the mind of the Indian exporters that situated as he is in the best position to know the trend of prices, the English agent might sell when the prices are at their maximum and might give something less to the Guntur exporters. The price quotations for Indian tohaccos in the English markets are never cublished nor do the agents in England supply the Guntur ex porters counterfoils of the receipts passed by them to buyers (1 e. manufacturers or their agents) in the United Aingdom In conse quence the Indian exporters feel that they have to accept whatever they receive from their agents in the absence of any other sources to verify the prices actually realised for their consignments

On the other hand there seems to be a feeling among the leaf brokers in England that the average Indian shipper is quite unable to determine what urice he is prepared to accept for each shipment sent over for sale on consignment basis and point out cases where the original asling price was reduced by as much as 3d per lb to the apparent satisfaction of the shipper It is obvious that such practices must leave an untavourable nupression on the mind of the buver but at the same time the Indian shipper cannot he blamed for lowering or raising the prices in accordance with the market conditions about which he seems to be almost wholly ignorant so far as the sale of Indian tohaceo in the United Lingdom market is con Cerned

Almost the only cause of this trouble cems to be the absence of any market intelligence with regard to prices of Indian tobaccos. Apart from the efforts that are being made since 1937 by the Len tral Marketing Staff there are no standardised grades for Indian tobacco exported to the United Kingdom. The grades adopted by the Indian exporters not only vary from one shipper to another but also from month to month with the same shipper. Under the conditions it is impracticable if not impossible to secure and publish information on prices of Indian tohaceos in the United Kingdom marı et In any case the remedy to get out of the difficulties experienced by the Indian shippers hes in their own bands and that is that every shipper should export his leaf only on the hasis of standard grades to which a reference has already been given earlier If large quantities of Indian leaf graded according to standards are offered for sale in the United Lingdom markets, it should be quite an easy matter to get and publish price quotations for Indian tobaccos in the same way as is being done with regard to American, Canadian Rhodesian and Vasaland tobaccos

(b) Exports to Japan -- For shipments to Japan no brokers intervene but the trade is extremely uncertain at least so far as individual exporters are concerned. Orders for purchase of tobacc from Japan are received only after the national budget for tobacc is passed in that country by about the end of September every year so that the exports can be made only after September. The Country (Autu) exparette tobacco exported from India to Japan becomes ready for the marlet in April and May so that the exporters from Guntur have to purchase leaf from the growers during these months in the bope of getting orders from Japan in September and October These orders may or may not be repeated from Yapar to year to the same Indian exporter who therefore considers his business with Japan as I matter of chance. On account of this cause exporter from Guntur sometimes have large unsold surplus stock which they very often export to the United Kingdom as heavy dark tobacco Tab type of tobacco its Country (Natu) has an extremely limited market in Fingland with the result that the stocks of Indian tobacco unnecessarily accumulate in the English markets.

(c) Exports to Aden and Dependences—These exports consistentively of buds and smoking tobaccos from the Bombay President entirely of buds and smoking tobaccos from the Bombay Pendency Almost all the tobacco exported is from the Charotar area of Bombay Gujerat and Baroda State Small quantities of pendis (leaf bundles) from the Nipan area are also exported It is understood that there are over three dozen Guyrat: merchants in Aden who are engaged in tobacco business and who arrange for the import of tobacco to Aden on consignment basis. Further distribution of this tobacco to Aden and other adjoining parts is arranged by these merchants In the majority of cases these Guyrat: merchants have their own organisations for purchasing tobacco in the Charotar area.

B -Finance of wholesale distribution

There is practically no difference hetween the method of finance of assembling and of wholesale distribution. Banks and shroffs do not play any significant part in financing the distribution of tobacco. Some of the smaller eigenvite factories occasionally raise loans from joint stock banks against factor, huiddings and machinery which are own finance. Commission agents wholesale merchants and exporters operate almost entirely with their own money. Occasionally het parts leans from hands and shroffs against property gold and gewelley but almost never against tobacco stocks. In the case of wholesale merchants a large part of their tolineco is offered to their clients on exclict the period of which may range from 30 to 60 days or more in accordance with their mutual business relations. Bulk of the main facturers of hokeka and chewing tobaccos and bulks do not come for ward to buy tobacco from wholesalers unless they are given sufficiently clastic credit facilities.

As has already been noted earlier some of the Gintur exporters get advances from their agents in England against their tohacco con signments at about 6 per cent interest. Exporters who do husiness with Japan and Aden do not appear to get any advance though it is understood that some of the Gunnit merchants doing business in

Aden supply capital to their agents in Bombay for making purchases in the Charotar area

Bulk of the unmanufactured tobacco obtained from the United States of America and the United Kingdom is imported on behalf of the Imperial Tohacco Co of India, Limited The large trade in chewing tobacco imported into Travancore from Jaffna in Ceylon is main tained almost entirely through a system of finance which connects the grower on the one hand and a distributor in Travancore on the other The tobacco grower in Jaffna is understood to he invariably financed by the local merchant or chetty (moneylender) Often, the tobacco is first pledged by the cultivator to the local merchant who in turn pledges it to the cheffy who charges 16 to 24 per cent interest on the money advanced The chefty stocks the tobacco in his godown and often makes it a condition that it should be shipped to Travan core only in vessels chartered by him Soon after the consignment of tobacco is received and sold in Travancore, the commission agent from Travaneore makes an advance payment to the chetty up to the extent of 75 to 90 per cent of the sale price. This advance may amount to as much as Rs 50 000 in the case of an average commis sion agent. To meet this demand he is often forced to horrow from the local hanks which usually advance loans on personal security charging interest at 12 per cent per annum. At the end of 42 to 18 months when the commission agent has realised all the sale proceeds of the tobacco the balance due to the chetty is paid after deducting commission godown charges and other expense, incidental to selling

C —Costs of distribution—the price spread from consumer to producer

(1) UNUNEFACTURED TOBICCO

The principal items of distribution costs are the assembilize charges and expenses over sorting grading handling parling and These charges vary in different areas and in accordance with the extent of the distance of transport and the channels through which the produce passes to the consumer When the producers sell direct to manufacturers as in the case of eigarette, eigar cheroot and bidi tohaccos the costs of distribution are small and consist entirely of the market charges customary in the locality handling and carting charges from the place of purchase to the buver's godowns and other expenses incurred by the manufacturer incidental to getting the un manufactured tohacco reads for manufacture. In the case of other manufacturers who buy from wholesalers and stockists the distribu tion costs include handling storage and other charges incurred by the latter. In such eases the proportion of the consumer's price that goes to the grower is naturally smaller than when the grower sells his produce direct to the manufacturer When the unmanufactured tobacco is exported abroad the grower's share of the consumer's price is still smaller

The following figures show the average distribution costs in the cost of flue cured Virginia leaf (stripped) exported from Gintur to the United Kingdom as worked out from data secured from a num her of merchants and growers

Price spread of flue-cured Virginia leaf (stripped) exported from Guntur to the United Kingdom

(Per bale of 250 lb)

	Export by	merchant	Export by	grower
	Amount	Per cent	Amount	Per cent
			 	-
Amount realised by grower	Rsar		PS A P	
Market charges paid by grower	5° 3 5	49 3	34 12 0	40 0
	1 14 6	16	1	
Carting expenses	0 4 0	0 *		
Brokerage in Guntur	0 10 a	0 0	3 0 0	3 4
Grading expenses	2 5 2	18	3 0 0	3 4
Stripping expanses	2 8 0	20	2 0 0	, , 3
Loss in weight by stripping	11 14 8	97	10 0 0	11 5
Loss in weight by moisture break age etc	0 15 7	4 9	10 0 0	11 -
Pressing charges	040	0 27	1	
Package and packing	1 10 5	1 3	3 0 0	3 4
Transpart to part (Coconada)	0 10 0 (by canal)	0.5	1 10 0 (by road and	1 9
Forwarding agent a charges	0 5 7	0.3	rail)	
Lasurance	0 11 11		0 6 0	0 4
Steamer freight	6 6 10	0.6		
Cable charges	- 0.20	5 2	6 4 0	7 2
Landing rent interest and other contingent charges at destination	10 5 9	8 5	17 0 0	19 5
Brokerage in United Kingdom	5 3 0	4 2	4 5 0	
l'are	" " "	1.	111 0	5 0
derchant a (Exporter s) margin	19 10 8	18 0	111 0	. 0
Price realised in United Kingdom	123 5 0	100 0	87 0 0	100 00

Thus when the flue-cured leaf is exported by a Guntur exporter, the grower for his leaf, on an average gets 423 per cent of the price

realised in the United Kingdom markets for the stripped leaf while the exporter makes a margin of 16 per cent which include his over head expenses estimated at about Rs o per bale of 200 lb. The balance 112, 417 per cent represents loss in moisture stripping, charges on grading packing transport insurance landing expenses rent brokerage et. When the grouver himself exports be gets for his stripped leaf as his net return only about 40 per cent of the price realised in England the balance representing expenses on items specified above. Tobacco intended for export to England requires special shall and equipment in preparation redriving grading and packing and small growers can ill afford to have such facilities Exports made by growers themselves therefore compare unfalour abbit in quality with those made by professional and expert export exported by growers generally fetches a lower price in the English market.

On the country (Nath) tobacco exported to the United Kingdom and Japan the grover's share of the consumer's price is smaller as can be seen from the following foures

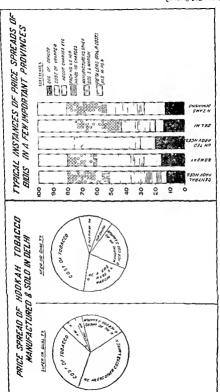
Price spread of country (\atu\) exported by merchants from Guntur

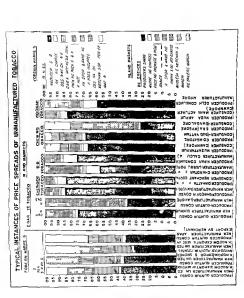
to the E nite	a PII	ega	on	ana sap	an					
(Per	bale	οĒ	25	0 lb)						
	E	tpo	rt to	A J	Ex	Export to Japan				
	Am	Amount Percent						Per cei	nt	
	Rs	2	r		Rs		ż			
Amount realised by grower	96	i	0	31.4	18	14	8	3-	8	
Market charges pa d by grower	1	э	0	16	0	15	4	2	0	
Carting expenses	0	4	0	0.3	0	4	0	0	э	
Brokerage in Guntur	0	8	0	0.6	0	8	0	1	0	
Grading expenses	2	8	0	3.0	2	0	0	4	0	
Stripping expenses for removal of stalks and stems	2	0	0	9 4	3	0	0	4	0	
Loss in weight by removal of stems and stalks	2	19	0	3 3	2	0	0	4	0	
Loss in weight by moisture etc	2	12	0	3 3	2	0	0	4	0	
Pressing charges	0	4	Θ	6.3	0	4	6	0	5	
Dackage and packing charges	0	12	0	0.9	0	12	0	1	5	
Transport to port (Coronada) by	0	10	0	0.7	6	10	0	1	2	

	E.	z po	rt t	o t k	Export to Japan.				
	4m	oun	t	Per cent	Amo	unt	Per ce	201	
Forwarding a _b ent's charges		6	P 0	0 4	Rs	A P		-	
In-urance	0	s	0	0.6			ĺ		
Steamer fre pht	6	4	0	- 5		0 0	6		
Cable charres	0	3	0	0,		3 0	0		
Landing ren intere t and o her contingent harms at de tinat on	10		- 1	P.	Ü		Ů	*	
Brokera, e at de-tina on	4		0	4.9			ĺ		
Exporter s maroun	•	0	v	76 4	16	9 0	3.3	,	
Proceedises and trust on	83	_		100 0	-00	-	170	_	

It is therefore evident that of the price realised for country ('atu) tobacco in the United Kingdom the grower gets 314 per cent, while the exporter makes a margin of 26.4 per cent. The correspond

share and 33 1 per cent as the margin made by price realised in Japan. The overhead expense estimated at about Re o per bale which he meet makes. The following figures show the per manner of 671 mounts.	the es o	ex; ftl	ori pori the	er from the exporter are margin he
merchant from Petlad (Baroda) to Aden —	Joacc	:0	5XD	orted by a
Price spread of bidi tobacco exported from Aden	Petlo	ıd	(Ba	rođa) to
(Per standard maund)				
Amount realised by the grower	P	3 4	·	Per cent.
Market charges pasd by the grower		- 11	0	4 ود
Market charges pa d by the buyer		1 5	0	10 1
Package and packing expenses	() 3	1	1 5
Poad transport to Petlad Pailway station		6	8	3 2
Railway freight to Bombay	•		0	0.5
Taking delivery	2		0	97
Taking delivery transporting to and arranging in the ware house	0	9	-	1 9
Tightening the ropes of the bales, etc	0	1	4	0.6
Warehouse rent insurance etc	ő		5	0.7
Transport from the warehouse to the port	0		0	10
Port trurt charges in Bombay	0	4	9	, 3
Steamer freight to Aden	ō	15	3	7.4
Marine insurance charges	0	1	ō	0.5
Mi*cellaneous charges incidental to handling and transport to merchant a warehouse at Aden.	ō	4	ŏ	19
Total	19	lo	1	100 0





The tobacco was purchased on hehalf of a Gugrati merchant found and the price at which the Aden merchant sold the tobacco is not known. But taling into consideration the expenses mourted by the merchant meidental to storage, etc., before sale, it is understood that on an average the grower hardly getls more than 50 per cent or the price realised for his tobacco at Aden.

So far as the internal distribution of unmanufactured tobacco is concerned, the spread of price between the consumer and produces in different areas is summarised in Appendix LXVI and illustrated in the diagram facing this page. The main factors that determine the proportion of the consumer's price that goes to the producers are the market value of the type of tobacco, the distance over which the produce is transported and the number of times the commodity changes hands before it reaches the consumer or manufacturer while on country (Natu) eigarette tobacco sold to a Sukkur manufacturer, the Guntur producer gets almost 75 per cent of the consumer's price, he gets hardly 37 per cent of the price paid by a Lahore manu facturer on the cheap scraps and rejections of cigarette tobacco. With the same type and quality of tobacco, the largest single variable factor in the distribution costs is the railway freight, which depends not only on the distance over which the commodity travels but also on the specially reduced freight rate that may exist between any two points In the case of Bangalore, however, the octror and terminal charges account for almost 40 per cent of the price paid by a con sumer of chewing tobacco as against a little over 26 per cent obtained by the producer (see Appendix LXVI) Similar is the case in a few other towns like Bombay where the rates of terminal and octroi charges (discussed in the next chapter) are high. In Bombar Rs 30 are charged for every maund of tobacco that enters the town of Bomoay Thus, while the Charotar grower gets only Rs 10 to Rs 13 for a maund of his bidi tobacco, Rs 30 have to be paid as town duty immediately the same maund of tobacco enters Bombay City

It may be seen from the figures of a few typical cases given in Appendix LNVI that the producer's share of the consumer's price ranges from 26 5 to 84 3 per cent leaving the case of Burma out of consideration. It is, however, assumed in all these cases that the producer sells direct to consumers. The quantity of tobacco sold by producers in regular markets is estimated at not more than 10 per cent of the total production in Lindon and it has also been made clear carbier (see Chapter V—Assembling) that about four fifths of the carbier specified by the producer would be blower than that shown in the representative mistances given in Appendix LNVI After making an allowance for this factor it may be very roughly reckoned that on an average the grower's share of the price pand by the consumer cannot be much more than about 60 per cent

The one case given for Birma in the Appendix LXVI shows that the producer's share of the consumer's pince is 85 per cent. This, bowever, takes no account of the complicated financial arrangements catered into by most of the tobacco growers in Birma with the lo at moneylenders brokers merchants and manufacturers (see Chapter V-Assembling) Taking into account the heavy rates of interest charged for the advances taken by the grower and the restriction of his freedom in the matter of the disposal of the crop as a condition of the loan the share of the consumers price that goes to the Burmese tobacco producer is also roughly estimated at not more than 60 per cent

(2) Tobacco Products

As explained in the next chapter excepting in the case of cigarette factories and one or two cigar manufacturers the manu tacture of tobacco products is not a standardised occupation for which factory costings are usually kept nor one about which in formation is given at all freely The complicated nature of mann facture particularly of eigarettes discussed in the next chapter would male any estimate of manufacturing and distributing costs highly conjectural It is therefore advisable to restrict discussion in this section only to such tobacco products like bidis hookah and much simplet and for which fairly accurate and representative esh mates can be made with the help of information secured from manu tactı rers

(a) Bidis -The following figures show the manufacturing and distribution costs per 10 000 bidis of medium size manufactured di

Man facturer-

(1) Raw materials-

mers

Total cost Per cent

Rs A P

6 4 0

18 12 0

33 3

100)

(a) Tobacco 5 seers made up of-3 seers of Delhi grown tobacco at Rs 4 per maund of 40 seers (These 3 seers give approximately 21 seers of bids tobacco after powder ng and sieving and removing earth and dirt) Cost Re 0 4 3 21 seers of Gujerat tobacco at Rs 20 per maund of 45 seers Cost Rs 119 Powdering and aleving cost Re 0 0 7 Total cost of tobacco 1 6 7 (b) Other raw materials-Wrapper leaf 10 seers at Rs 4 per maund Cost Re 100 Thread Re 0 5 0 Paper and packing Re 020 Total cost of other raw material 7 7 (2) Labour charges at 7 annas per 1 000 bid s (piece work) ... 4 6 0 93 3 (3) Manufacturer s other costs and margin 5 4 5 28 2 (4) Selling price at Ba 1 4 0 per 1 000 bidis 12 8 0 Retailer-(5) Retailer e marign

(6) Retaster a price at 9 pies por 21 bidis charged to consu

Similar enquiries indicate the following as the manufacturing and distributing costs in important areas

Average manufacturing and distributing costs of bidis (Per 1000 bidis)

(Figures in brackets represent percentages)

				~	
~	Central Pro vinces	Bombay	LΡ	Delhi	Vizam * Do minions
Cost of tobacco			Ps A r 0 4 0 (*0 0)		
Cost of wrapper	0 0 9 (3 8)	0 3 0	0 0 (10 0)	0 I ~ (> 3)	0 ° 10 (14 °)
Labour charges etc	0 (30 0)	0 8 0	0 (30 0)	0 ~ 0 (3 3°)	0 o 2 (°o 8)
Packing and other handling charges	9 0 11 (4 7)	0 0 6	0 1 0 (5 0)	0 0 8	0 0 8 (3 3)
Manufacturers other costs and margin	0 4 10 (24 0)	0 4 6 (18 0)	0 1 0	0 8 6 (28 3)	0 4 9 (23 7)
Retailers other costs and margin	0 4 0	0 5 0 (29 0)	0 5 0	0 8 0 (26 7)	0 4 0 (°0 0)
Consumer s price	1 4 0 (100 0)	1 9 0	1 4 0		1 4 0 (100 0)

Thus it is seen from the above statement and the diagram facing page 310 that the manufacturer makes a margin of 5 to 28 3 per cent of the consumer's price while the retailer gets from 20 to 26 7 per cent. The cost of tobacco ranges from 12 5 to 20 per cent of wrapper leaf from 3 8 to 14 2 per cent of labour 23 3 to 30 per cent while the cost of thread labelling packing etc. taries from 2 to 5 per cent of labour forms the biggest single item.

(b) Hookah tobacco—Enquiries made in Delhi show the following as the average costs of manufacturing and distributing superior and inferior qualities of hookah tobacco (See diagram facing page 310)

314				
Details of ma infacturing and distributing cost hookah tobacco manufactured in	s of Dell	su.	per	ior quality
Details	Tota	al co	st P.	Per cent.
Manufacturer-	11		•	
(1) Paw materials—				
Tobacco— 1 maund (42 seers) Parrukhahad tobacco at Ps 10 per maund Cost Rs 10 0 0 2 seers of Kampilla tobacco at Rs 15 per maund of 48 seers Cost Pe 0 10 8	;			
In seers of Bombay tobacco dust at Rs 6 per maund of 42 seers Cost Ps 200 Powdering and sieving at 6 annas per maund (43				
seers) Cost Re 0 8 3 Total cost of tobseco Other raw materials—	13	2	11	31 5
Molasses 14 maunds at Rs 1 12 0 per manual Earth* Re 0 0 7 Total cost of other rs w materials	2	10	7	6.3
(2) Labour charges at 6 annus per maund of 45 seers (piece work) (3) Manufacturer s other costs and margin		6		3 2 19 0
(1) Selling price of 1347 seems of hookah tobacco at Ra 7 8 0 per maund	25	2	0	
Petayler— (5) Petayler a margin	16	12	0	40 0
(6) Retailer a price at o nunas per seer	41	14	~	100 0
Details of manufacturing and distributing cos hoofah tobacco manufactured in	ts of Delh	f in	fer	or quality
Details	Total Rs			Per cent
Manufacturer— (1) Fase maderola— Fobraco— 1 manufl of 4) seers of imported raw hookah tobacoo— at Fi 10 per manud. Cost Rs 10 0 0 1 of 45 seers. Cost Rs 10 10 Rs 20 per manufl of 45 seers. Cost Rs 10 8 Rs 6 1 oseers of Hombay tobacco dustat Fs 6 per manufl of 45 seers. Cost Rs 10 8 Rs 6				
Powdering and sizering at Re 0 60 per maund of 45 seets Cost Pe 0 10 0 Total cost of tobacco Other transmetrals— 75 seers of molasses at Rs 1 12 0 per maund Cost Ps 3 4 6	14	4	8	43 5
Earth: Fe 0 1 3 Total cost of other rew materials (2) Labour charges at 6 annas per maund of 45 seers	3	5	9	10 2
(prece work) (3) Manufacturer s other costs and margin	1	7 15	3	4 4 15 2
		_		

⁽⁴⁾ Selling price of 175\$ seers at Rs 5 8 0 per maund * The total quantity of tobacco used comes to 62 seers To this is usually added a hos total quantity of totaceo used comes to us seem To thus is unusuly sedect shout 20 per cent of earth. Thus about 12 seems of earth is added. This costs about 2 annas per manud for labour.

† The total quantity of hooked tohaco comes to 134 seems made up of 62 seems of bil acco. 12 seems of earth and 69 seems of molasses.

24 1 0

[†] Earth equal to about one third of the weight of tobacco is added Consisting To seers of tobacco 75 seem of molasses and 20 seers of earth

Details of manufacturing and distributing costs of inferior quality hookah tobacco manufactured in Delhi-contd

Details	Total cost Per cen	t
Retailer-		
(5) Relasler s margin	8 12 0 26 7	
(6) Retailer a prace at 3 annua per seer	32 13 0 100 0	

The average manufacturing and distributing costs in the important hookah smoking areas are given in the following state ment —

Average manufacturing and distributing costs of hookah tobacco

(Per maund of manufactured hoolah tobacco)

(Figures in brackets represent percentages)

	Punjab	Delhi,	υр	Bengal.
Cost of tobseco	Rs A P 2 10 7 (53 2)	Rs A P 3 9 8 (36 0)	Rs A P 3 4 2 (37 5)	Rs A P 3 12 0 (37 5)
Other raw materials and ingredients	0 21 3 (14 1)	0 12 6 (7 8)	2 5 5 (26 9)	1 12 0 (17 5)
Labour charges, etc	0 3 1 (3 8)	0 6 0	0 2 7	1 0 0
Manufacturers other costs and margin Retailers other costs and margin.	(28 9)	1 15 6 (19 7) 3 4 4 (32 7)	1 3 2 (13 8) 1 11 10 (20 0)	1 8 0 (15 0) 2 0 0 (20 0)
Consumer s price	5 0 0 (100 0)	10 0 0 (100 0)	8 11 2 (100 0)	10 0 0 (100 0)

The cost of tobacco thus ranges from 36 to 53 2 per cent of the consumer's price while that of other raw materials like molasses etc, varies from 7 5 to 26 9 per cent Labour charges form the smallest item of cost accounting from 1 8 to 10 per cent of the consumer's price while margin made by the manufacturer varies between 13 6 to 19 7 per cent In the Pumpah, the manufacturer who himself does the retailing makes a margin of 28 9 per cent of the consumer's price. The margin made by the retailer in Delhi, the United Provinces and Beneval is higher than that obtained by the manufacturer and ranges from 20 to 32 7 per cent.

average manufacturing and distribution co tobacco manufactured in the United Province	
	Per maund of manufac Per cent cured chewing tobacco
Cost of tobacco	Rs A P
	18 0 0 36 0
Cost of other raw materials and ingredients	2 10 0 5 3
Labour charges etc	

(d) Snuff -A snuff manufacturer from Kolhapur has given

Consumer a price

Consumer a price

the following figures of costs and realisations -

Packing and handling charges

Retailer a other costs and margin

Coat of tobacco

Manufacturer a other costs and margin

Cost of other raw materials and labour

Mannfacturer a other costs and margin Retailer a other costs and margin

3 0

4 5

26 2

25 0

100 0

Per cent

43 1

27 9

100.0

12 8 0

50 0 0

Perseer of

0 8 5

sporff Ps A P

0 11

2 8 0

[Wholesale distribution of unmanufactured tobacco

INTER CHAPTER NINE

It is difficult to make a general statement applic able to the whole country about the proportion of the consumer's price obtained by the producer of the different types of tobacco About four fifths of the tobacco crop is sold by the producers in their own villages to merchants, manufacturers and warehousemen In such sales the distribution costs consist entirely of the market charges customary in the locality and the producer gets 99 per cent of the buyer's price in the North Bihar area, 94 to 96 5 per cent in the North Bengal and Guntun areas and 85 5 per cent in the Charotar area. When sold in markets in the producing areas, the producer gets 89.5 cent of the buver's price in the Nipam area and 94 5 to 96 5 per cent in the North Bihar and Guntur areas The bulk of these sales are, however, made to merchants and warehousemen who form a fairly long chain between the producers and consumers or manufacturers and the share of the consumer's price received by the producer becomes much lower After making allowance for this factor and transport and other charges it may be roughly estimated that on the average the producer's share of the price paid for unmanufactured tobacco by the consumer or manufacturer is not much more than 60 per cent or 10 annas in the rupee

On an average of the prices realised for Virginia fluctured tobacco (stripped) in the United Kringdom markets the grower from Guntui gets about 42 3 per cent fo his leaf while the exporter's margin amounts to 16 per cent. The balance 112 417 per cent. 1 epicsents loss in moisture stripping, charges on grading, packing transport, insurance, landing charges, rent, biokerage, marketing charges, etc. When the grower

himself exports he gets for his stripped leaf as his net return only 40 per cent of the price realised in England, the bilance representing expenses on items specified above. Tobacco intended for export requires special still and equipment in preparation, redrying, grading and pucking. Small growers can ill afford such facilities and would be well advised to desist from exporting their tobacco direct for sale on consignment basis at any price it will fetch. On the country (Natu) tobacco exported to the U.K., the grower gets 31.4 per cent as his share of the price realised in England, while the exporting merchant's margin amounts to 26.4 per cent. The grower's share of the price realised in Japan for country (Vatu) tobacco is about 37.8 per cent as against the exporter's margin of 33.1 per cent. The Indian grower gets hardly 50 per cent of the price realised in Aden for his tobacco.

One important reason for the high distribution costs is the frequent sorting and resorting of the un manufactured tobacco almost at every stage to suit the requirements of different merchants and manufacturers. It should be possible to economise in this respect by adopting standards in regard to quality, moisture contents and packing. The marketing expenses are high particularly in the Charotar and Nipam areas and some action is urgently required for their regulation.

Commission agents and wholesalers form the most important link in the chain of distribution, and assemble and distribute about four fifths of the total annual production. Purchases are also made directly from villages by agents of the big manufacturers and of most of the leading exporters who operate at Guntur and Bombay.

There is a feeling in the mind of some particularly of the smaller exporters that they do not get correct prices for their leaf from their agents in the United Kingdom This arises from the fact that they have no source with which they can compare the prices obtained from their agents. In the absence of standard grades, there is no market intelligence with regard to Indian tobaccos in United Kingdom markets, which would make it possible to compare prices. If large quantities of Indian leaf graded according to standards are offered for sale in the United Kingdom and other markets, it should be possible to secure and publish price quotations for Indian graded tobaccos in such a way that exporters could exercise better judgment as to the proper time and place to dispose of their consignments.

OHAPTER X —MANUFACTURE AND DISTRIBUTION OF TOBACCO PRODUCTS

Apart from the eigerette factories and one or two manufactures of eigars line the Speneer's munufacture of tobacco is essentially a local industry. It is not a standardised occupation for which factory costings are neutilly lept nor one about which information is given at all treely to an enquiry. Even in the case of eigarette and eigar factories the only dependable information available is that collected under the Indium Factories (at and this consist of names and location of futories persons employed accidents of names and location of futories persons employed accidents of parawith any information almost on any aspect of the indistribution parawith any information almost on any aspect of the industry and munifications of old to locate products also are not quit willing to just with information of their trade. Any information given here therefore not be read with these remarks in mind.

A -Manufacture of tobacco products

(1) CIGARETTES

(a) Extent and location—During the veri 133 the latest year for which information is available there were 22 cigarette factorise from the minormation is available there were 22 cigarette factorise specifications of the properties of the propertie

The Indian Leaf Tobacco Development Company purchases over half of the eigerette leaf produced in India for export and for sale to the Tobacco Manufacturers (India) Limited and the Cigarette Manufacturers (India) Limited who own three factories and one factory respectively and are responsible for three fourths of the output of eigarettes in India The factories are located at Banga lore Sabaranpur Monghyr and Calentia

The Imperial Tobacco Company of India Ltd acts as a selling organisation for handling the products of the companies referred to above and including imported goods probably I andles somewhere like 75 per cent of the total trade of eggrette in India

The Indian factories are located in Bombay Sukkui Jullundur Lahore Allahabid Calcutta Hiderabad (Deccan) and Barodd The more important Indian factories are those at Calcutta Bombay Sukkur and Hiderabad (Deccan), at

least so far as the volume of production is concerned. There are two small factories catering for local demand at Gwalior and Bezwada A manufacturing concern from England is contemplating to organise a big eigarette factory at Bombay.

Between 22 to 23 million lb of tobacco leaf is annually used by all the orgarette factories. Of this quantity about 15 per cent is foreign leaf imported almost entirely from the United States and the United Kingdom. The annual production of eigarettes in India is estimated at about 7 o90 million cagarettes valued at nearly six erores of rupees. Almost three fourths of the production consist of cleaper brands of eigarettes. The production of medium quality eigarettes is estimated at about 20 per cent while that of the high grade eigarettes at about 5 per cent of the total annual production.

(b) Yanufacture—The manufacture of cugarettes is an extremel, elaborate and complex aftar. On arrival at the factors the tobacco leaf is tenu ed from its containers and then further graded and blended. Each brand is made np of definite proportions of different grades or types of tobacco in order to produce a product of definite quality and to maintain a specified standard of quality. The several grades or types are carefully brought together or bleuded in proper proportions on the floor of the mixing room Selection and blending of leaf is one of the most important operations in the manufacture of cigarettes and the blender is often the most important person in all eigented factors.

A few manufacturers spray the tobacco leaf with "flavour map," which are made from very secret recipes partenularly in the case of cheaper brands of eigarettes. Various concoctions of gliverine, gliuces, molasses and essential oils are used. In order to maintain the moisture in tobacco and to improve the flavour many manufacturers use giveerine and diethylene glycol. It may be stated that in the United Kingdom the use of glicerine and diethylene giveol is considered illegal in the manufacture of tobacco products though the use of essential oils for the purpose of flavouring of any tobacco products and olite oil and sweetening matter in the case of smoking tobaccos is permissible. The addition of solid matters is prohibited for home consumption but permissible in goods manufactured for export.

After the leaf is selected the tobacco is taken to the steaming or conditioning room where it is passed through a series of chambers permeated with moisture which renders the leaf soft and plubble and fit for handling. Afterwards the midrih of the leaf is removed if this has not already been done before the leaf reaches the factory. The stripped or stemmed leaf is then built into heaps and allowed to case 'or institute which is considered to severe and mellow the tobacco. It this point the leaf is considered ready for manufacture and taken to the cutting room where it is cut into fine shreds by the cutting machines. The cut tobacco is then passed through a machine consisting of large revolving exhibites which are 1e ted

This has the effect of loosening the ent tobacco and making it high and fluffy. Afterwards it is passed into reading drums through which cold arm is circulated and over a series of sieves where particles of dust or stem are extracted. The cut tobacco is the taken to the storage room where it cols and mutners for about two days after which it is considered ready for manufacture into currently.

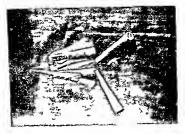
The eigarette milling muchine is a fast running machine and great care is necessary to ensure that all the eigarettes that are pit through are well filled and that the eigarette priper is properly printed as the printing is done by the same machine which makes the eigarettes. The malling of eigarettes is a skilled work and an operator has to receive a considerable, amount of training before he is able to make satisfactors eigarettes as there are several points that have to he witched

The cut tobacco is fed into large hoppers at the back of the eighteet machine. From here it is drawn over a wide shule of fast recolving rollers. At the bottom of the shule in a narrow trough runs the eighteet paper in an endless stream. Before reaching the trough the paper is printed by a printing presented to the machine with the name of the brand on each agarstic length. In the case of cork tipped eighteets the paper sist through a corl tipping apparatus where the tips are securely fastened to the paper in the required position. The tobacco from the shule falls over the swiftly moving eighteet proper one edge of which is a superior of the paper is then automatically sealed. The eighteet has made is endless and a fast revolving circular kinfe cuts to required lengths. The eighteets are then exumined and their weight tested.

Atterwards the eigarettes are put into trays and allowed to condition for a specified time in a special from They are than paid el in cartons of tens or in vacuum tins of 50 eigarettes. Most of the bigger cigarette factories possess packing machines which paid cigarettes in cartons at the same time placing the in fid around the eigarettes. The cartons then go to another machine which wrips them in glascine or moisture proof and transparent paper which also enables the consumer to be sure that the eigarettes have no name was been timpered with after they left the justifications.

(2) CIGARS

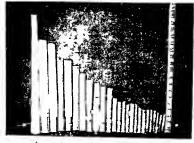
(a) Exicut and location—The eigar differs from the cherost only shape being truncated at both ends. As has already been indicated earlier in the first two chapters the trade and hence the volume of manufacture of eigar, is continuously on the decline About half a million ib of tobrece is used in the manufacture of eigars manufactured at present is estimated at about 10 millions valued at about 15 lakks of rupes per annum. Cugars are manufactured almost entirely in the Madra-



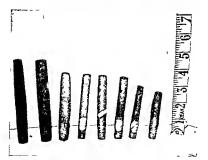
BI



A b in making worsehop with the vorke a bust making b d s. The shop also retails b d s and other tobacco products as well as matches betel nuts etc.



An assortment of Burmese mild cheroots,



An assortment of Burmese strong cheroots.

Presidency where there are about a dozen and a half large factories. Trickinopoly is an important centre of production and has about a dozen factories. The well known Spencer's cigars are manufactured at Dindigul, while in Madras etty there is another factory where superior cigars, chiefly meant for export, are manufactured Coconada has two factories, but their output is small. The largest cigar factory in the country is that of the Spencer's at Dindigul employing on an average a little over 250 persons per day. Other factories employ from 50 to 100 hands cach per day, but work is stopped or reduced during the winter mouths. Besides the larger cigar manufacturing factories, some of the cheroot factories also manufacture cigars on a small scale.

(b) Manufacture—As compared with the manufacture of cigarettes, the making of eigars as well as cheroots is much simpler and can be done without any elaborate machinery and all by hand. After the tobacco bundles are received in the factory, they are slightly moistened by spraying water on them to facilitate bandling without breakage. The leaf is then sorted out into filler, wrapper and builder, which constitute the three parts of a cigar, as well as of a cheroot. The filler tobacco forms the central core of the cigar while the binder binds the filler and holds it into shape. The wrapper leaf is wrapped on the outside of the cigar and indicates the quality of the cigar, so far as the external appearance is concerned.

The filler leaf is then again moistened and stripped by taking off the midrib The larger manufacturers do not recommend flavouring of tobacco, but some of the smaller factories use essential oils for flavouring The stripped leaves are then dried and kept in store for use They are then further sorted into longer leaves useful for wrappers and smaller ones for fillers. The fillers are used mainly of Trichinopoly origin and occasionally also from Guntur The wrapper leaf which is usually imported from abroad, should be thin, soft, pliable and entirely devoid of bitter taste. The filler leaves are then rolled into small cylinders over which the binders are fied The rough eights thus rolled are afterwards kept in a press for some time until well set Superior wrapper which is kept ready in a rolled form is then applied on in moist condition over the rough eigar, starting at the lighting end and finishing at the other end by fastening the edges of the wrapper with a paste. After this, they are packed in thin wooden cases to contain 25, 50 or 100 cigars few manufacturers stifle the eigars for some time by keeping them at a temperature of 150° to 160° m a steam chamber before packing to keep them free from meet attack

(3) CHEROOTS

(a) Extent and location -- The manufacture of cheroots is confined almost entirely to the Madras Presidency and Burma

The average annual output of cheroots in India is estimated at 90 to 92 million lbs or about 18 500 million cheroots, valued at over

S crotes of rupees Cheroot making is practised as a cottage industry protectably all over the Madras Presidency, parts of Mysore and Nizams Dominions Triebmopoly is the largest manufacturing centre and in Woriur a suburb of Triebmopoly, practically every other house is a centre for manufacturing cheroots and even eigers

In Burma toe cheroot rolling is essentially a small local industry women who are rollers with some degree of skill being found in almost all towns and in most of the tobacco producing villages Unlike India the work is always done and the business managed by women. On an average about a thousand million strong cheroots using about 24 million ib of tobacco are unusually manufactured in Burma. The average annual output of mild or torch cheroots is little over 6 000 million cheroots for which about 58 million lb of tobacco is used. The total value of the cheroots manufactured in Burma is estimated at 8 7 crores of ruppees.

(b) Manufacture—The method of manufacturing cheroots is similar to that followed in the mailing of eigars. In the case of cheroots also there are three parts viz filler hinder and wrapper hut for wrapper leaf of fine and phable texture is preferred. No imported leaf is generally used in the manufacture of cheroots.

- (i) Vadras—In the Madras Presidence large thin and darl coloured leaves are preferred for wrappers. Tohacoo from Kusta Lankas is used for such purposes at Madura. In addition to local tohacoo. The treatment of fillers is different. Some manufacturers as at Cannanore perform a sort of forced sweating on the sorted leaf by immersing it in treacle water for a few minutes and allowing it he overnight. When sufficiently dry, the leaves are stripped scattered on the floor and dried. The wrapper leaf is then kept in moist condition and used for rolling on to the cut filler leaf. After the cheroot is rolled it is cut at the smoking end. Packing and Tanking and the consideration of the consideration of
- (1) Burma—The Burmese eberoots are of two kinds the strong cheroot or his byin leik made entirely of tobacco which is smoked by Europeans and by certain lower Burma town dwellers and the mild eheroot with its wrapper of maize hipst or thanat hipst filled mild eheroot with its wrapper of maize hipst or thanat hipst filled with mixture of chopped tobacco stalks and leaf which is the general snoke of the Burmese people (see plate tacing page 223). When the wrapper used is the sheath of the muze cob it is called his baw leik and when the wrapper is the prepared teat of thanat bin (cordia spp.) thanat hipst leik or shan high leik the latter name having reference to the Shan States whence the hipst or wrapper is obtained.

Between the has bou leak and the shan hpel leak there is no difference in flavour, but the shan-hpel or thanat hpel covering, by reason of its more finished appearance and more even burn is preferred by the townsmen whilst the rural population content themselves with the less showy and more firy wrapper made from the sheath of maize-coh. In certain areas use as a wrapper is made of the sheath which envelopes the leaf has of the 'kin bin (a reca mut palm tree). The mild cheroot in this case is called akun hpel leik.

In the strong cheroots only chee or shade cured tobacco such as is produced in the Kama and Shwegyin areas is used. The cheroot like the cigar is made up of three components the wrapper (ta-bet or a-toh) and the filler (a-sa) of these the wrapper is selected on account of its appear ance and elasticity and the filler for the flavour which it imparts in theory at any rate they should be represented by entirely different types of tobacco. In actual practice one variety is generally made to serve all the three purposes with possibly a small admixture of other varieties to the filler to give a desired flavour.

The rolling of strong eheroots is seldom carried on by a single worker aloue the usual practice being for a skilled worker to be assisted by one moderated skilled and by an upprentice. The apprentice seldom does any rolling ber work being the preliminary occupations of casing and stripping shaping the wrappers and drying winnowing and seving the filter. In this she may from time to time be assisted by the roller of medium skill. The most skilled worker devotes her time to rolling only. The output of a combination of three persons thus employed is therefore represented by the rolling of the two and on a daily average works out at about 600 large sized 800 of medium sized and 1000 small cheroots.

The work of rolling is generally given on contract the usual rate being 4 annas per hundred for the large sized cheroots 3 annas for the medium and Re 0 2 6 for the small

In the course of rolling it has become enstomary with some manufactures to spray the filler tohacco overnight with flavour ings made up from very zealonsly guarded recipes in which brands an ye (fermented liquor from the palmyra palm) vanilla essences sweetened water etc are commonly included. Despite these flavourings however very definite preferences exist for the tohaccus of different areas. The Lonka tohacco from Slivegvin for example is more highly esteemed for cheroot making than the Havana type grown in Thavetimy obstrict.

In the manufacture of mild cheroots the chopped tobacco stalks are first treated with a solution of selt largers and transrind pulp and then dried in the san after which the mixture i roastel in large open paus to bring out the flavour. When this cooled dried tobacco leaf brole in into small piece i mixed with it in the proportion of three parts of chopped stalls to one part of tobacco leaf. Weanwhile a number of mouth pieces made from the sheath of maize cob are rolled and these serie as filters. A number of these mouth pieces together with a hasket of the prepared filler mixture and a

heap of wrapper leaves are taken by each roller, each of whom performs all the operations in connection with rolling. The wrapper leaf is shaped and laid flat on a table. A mouth piece and a core of filler mixture are arranged on it and with a defit movement of fingers and thumb the wrapper is rolled round these and tied with a piece of cotton thread. Into the cylinder so made more filler tobacco may be put in. The paeling is then formed with a thrust from the finger or a small strick and the top of the wrapper turned in

Apprenticeship in this work is served in rolling the smallest shan hot leak (of shout a pencil size) till the apprentice reaches the final stage when she can roll standard class of cheroots about 8 to 9 inches long and 1 to 13 metes in diameter. The rates of wages for rolling mild cheroots range from 13 to 3 annas per 100 according to size. A worker can roll from 200 to 400 cheroots per day.

(4) Bidis

(a) Extent and location - The making of the bids (the indigenous cigarette) is an industry widely spread over the country It is partly carried on in the home but mainly in the workshops in the bigger cities and towns Every type of building is used but small workshops preponderate There is practically no area in India where bides are not manufactured to a smaller or greater extent. Over 75 000 million bides are annually manufactured in India using about 70 million lb of tobacco. The total value of the manufacture is estimated at 7 5 crores of rupees Almost one fourth of the total number of bidis manufactured in the country is made in the Central Provinces Madras and Bomhay together account for about 40 per cent of the total their individual share being almost equal TI ese three provinces together contribute nearly two thirds of the bidis manufactured in the country Other areas of importance where bidis are manufactured on a fairly large scale are the Mysore State and the Nizam's Dominions which together manufacture over 11 000 milhon bidis annually Bidis are manu factured in appreciable quantities in many hig towns of the United Provinces Bihar and Bengal Delhi is an important bidi manufac turing centre in the north where about 41 million bidis are annually manufactured

In the Madras Presidency Madras city is the most important bid manufacturing centre where about ten to twelve thousand pressors are segmented to be engaged in bidi making every day. There are a few manufacturers in the city employing from two to three thousand persons per day. Anoth Arrot is another important centre for bidi making in the Presidency with about 75 workshops a few of which employ up to 3000 persons per day half of whom are children. There are several other towns manufacturing bids and the total number of persons employed in b di making in the Presidency is estimated at over 50 000 per day though the trade generally does not provide work throughout the year.

Report of th Roy il Commission on Labour in Ind a (1931) page 90

In the Bombar Presidency practically all important towns are bids making centres. Sinnar in the Nasil district is reported to be the most important centre for bids manifacture where about 2 000 persons work every day on bids making. Poona is the next important centre and bids manufacturers elaim that the pioneers of the bids making industry in the Central Provinces got their first lessons in Poona.

From the point of view of inter provincial trade, the bidis manu factured in the Central Provinces are the most important. Of the total number of bidis manufactured in this Province about 75 per cent valued at about 1 2 erores of rupees are exported to all parts of India, and even Burma That the Central Provinces should be an important bidi making area may at first appear strange in view of the fact that the quantity and quality of locally grown tobacco is of little consequence. The development of bids making in the provinces has been almost entirely due to the ahundant supply of bidi wrapper leaf (discussed later) and cheap lahour for bidis are hand made Since it is found more economical to import bids tobacco than to export bids wrapper leaf which is bulky for trans port bids making has developed mostly at those centres in the Central Provinces where wrapper leaf is most plentiful and cheap For example nearly 60 per cent of the bidis made in the provinces are manufactured in the Bhandara district where bids wrapper leaf is plentiful in the local forests. Practically all tohacco used for bids making is imported. There are about 895 bids making shops in the Central Provinces and Berar located in 347 villages and towns Of these 895 shops 185 are bigger shops employing on an average more than 50 workers per day while the remaining 710 are smaller concerns which employ less than 50 workers per day three fifths of the total manufacture of bids in the provinces are controlled by four leading bids making firms from Jubhulpore Gondia \agpur and Kamptee The average daily output of bidss in the provinces is estimated at about 5 erores. The number of persons engaged in bids making is little over 42 000 of which about 31 000 persons work in the Bhandara district alone

(b) Manufacture of bids.—The principal ingredients in bids are the bid tobacco mixture and the wrapper leaf. The most popular and widely used lide tobacco are the varieties grown in the Charotar and Vipani area of the Bomba. Presidency. The Charotar tobacco is known to the trade as Gagerati while the tobacco from the Vipani area i called Vipani in order to cheapen the covid bili manufacture sometimes to acco from Bibar United Provinces. Vizam's Dominions Wissore and scraps and rejections from Gintur tobacco are used to mix with the Gujerat and Vipani to accos.

Generally there are three sizes of body have medium and small small of the state of the body manufactured in the country however are of medium size. By weight the proporting of wrapper leaf to tobscop varies from 40 to 50 per cent

(t) Wrapper leaf—The wrappers used for making bids are the least of trees Disapprus medanoxylon and Disapprus Elemin, known in different areas of the country as temburn, temburn, tumuka, tendu, toopad, tunka etc. The trees grow wild in the forests of Central India Central Provinces and Nizam's Dominous which form the main source of supply of bid; wrapper leaf to the country. Leaves of apid tree (Basthama racemosa) are also used to a small scale as wrapper but mostly in the Bombay Presidency The right to collect leaves from the forest trees is usually given by auction to contractors and a few bids manufacturers from the Central Provinces themselves take these contracts.

The most desirable quality characteristics of these wrapper leaves are that they should be of medium thickness phable large sized and of colour ranging from greenish yellow to light copper red On an average a leaf yield, 2 to 3 bid, wrappers. The price of the wripper leaves in the Central Provinces is about Rs 4-50 per thousand bundles of fair average size weighing approximately 3 maunds. They are usually transported in large size guiny bags each containing about 300 to 3-00 bundles /one bundle having about 7.0 to 100 leaves) and weighing about a manual

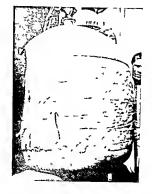
(11) Valing of bidis -The minufacture of bidis (see plate fac ing page 322) is a very simple process. The bundles of wrapper leaves are first soabed in water to soften the leaves which are then out with a piu of scissors into rectangular shapes of leaf. The average dimensions of the cut pieces are about 3 2 inches in length on one side about 3 inches length on the other side and breadths 1 8 inches and 1 o inches on the two sides. Some of the manufacturers particularly from the Central Provinces provide the workers with a piece of tin of the proper shape and size to enable the worler to cut the leaf correctly The usual practice is for the worker to take the bundles of wrapper leaf to his house in the evening and cut the leaves into pieces at night after first soaking the bundles in water In this way he has a good supply in hand with which to begin his work the next day In the actual working of bidis, a quantity of tobacco mixture is taken in a scoop of iron or bamboo tray while the operator keeps a number of ent pieces of wrapper leaves close by The wrapper is held by him in his left hand and the tobacco mixture is placed on it and evenly spread along the length. The wrapper is then rolled between the fingures and palms of hand into conical shape and the top or the broad end is closed by bending it over the wrapper with the fingers The other end is tied with a piece of white or coloured cotton thread

In the case of workers who work in the bulk making workshops to each labourer about 10 bundles of wrapper leaves (sufficient to nale about 1000 bulks) to curry them to his house where they are nut to proper size at night. On his arrival it the workshop the next morning he is provided with a rou or bamboo tray to keep his material. Before commencing the as work he is given a supply of tobacco mutture in accordance with his skill and capacity issually bount a 100 \$c. hubdaks of tobacco (sufficient for about 1000 bulks).



Some of the trade mark labels used by bide manufacturers indicating the very close resemblance of trade marks in regard to form, size, colour and other particulars

Each of the seven labels belongs to a different manufacturer



A roll of manufactured hoolah tobacco

and white or coloured thread depending on the brands be is making It is the usual practice with manufacturers to use thread of different colours to distinguish different brands After the days work is over the worker ties the bids with thread into hundles of 25 each which are then banded over to the manager or inspector of the workshop who examines and counts them and issues a chit in acknowledgment of good bids received for payment is made only for good bids. After receiving the bids bindles in the workshop, they are arranged in trays which are placed in a warm room for drying, after which each bindle is wrapped in thin paper and labelled. In the Central Provinces it is the usual practice to give the work of wrapping and labelling on a contract at about 14 to 2 piece per 1000 bids. 20 small hundles are again packed into a bigger hundle which thus contains 500 bids. These hundles are then ready for the marlet. They are then packed in gunny hags or bamboo baskets or wooden eases for transport

Manufacturers also adopt the practice of giving a definite quantity of wrapper leaf bids tobace omixture and thread to workers for earrying the same to their houses for making bids. In most cases such workers are women who male bids at their home during their spare time and earry bids thus made to the worksboy. The quantity of wrapper leaf bids tobaceo mixture and thread given to each worker is hased on the requirements to male 1 1000 bids. Paviment is made to the workers on receipt of good bids:

(iii) Cost of making bidis—The cost of making bidis consists of the cost of tohacoe mixture wrapper leaf labour charges lahelling and packing The following figures show the average cost of production per 1 000 bidis at some of the important bidi manufacturing centres in the Central Provinces

Cost of manufacture of bidis in the Central Provinces

\ame of Centre	Cost tobi @ chha	ecc0	>	Cos 10 k les wra les	of	d er	Cos labi as pac	ellu nd	og	La	bou		Total cost per 1 000 bidis		
	Rs	_	r	Rs	Α.	P	Rs	A	r	Rs	A	P	Rs	A	P
Sauvor Jubbulpore or Kam ptee	0	3	0	0	0	9	0	0	6	0	7	0	0	11	3
Gond a	1 0	3	0	0	0	9	0	0	6	0	J	6	0	9	9
Тгога	0	3	0		0	9	0	0	6	0	4	6	0	S	9
hbandwa		3	0	0	1	0	0	0	6	0	8	0	0	19	6

It will be observed that the most important item of the cost is labour. The priment to workers practically all over the country is made on piece work basis ic per 1000 bids. The rate in the Central Provinces ranges from 41 to 8 minus per thousand bids, while in

Madras it is about 8 annas per thousand. The rate in Bombay ranges from 6 to 8 annas per thousand while in Sind and other areas the rate may be even up to 12 annas per thousand, particularly in the case of male workers. The rate for workers who prefer to take the required material to their houses for making bids is usually 1 to 2 annas lower per thousand bids as compared with the rate given to workers who work in the bids workshops.

(5) Hookak TOBACCO

- (a) Extent and location—The consumption and manufacture of hookah tobacco in the country are almost entirely confined to the northern provinces, namely, the N W F P, the Punjah, Delh, United Provinces, Bihar, Bengal, and parts of Raputiana and Central India The annual production of hookah tobacco in the country is estimated at over 1,300 million ib valued at about 90 crores of rupes Almost two fifths of the production is confined to the United Provinces.
- In the Pinjab and Bilar kookak tobacco is made in practically all towns and many of the villages. In Bengal, it is estimated that about 85 per cent of the local manufacture of kookak tohacco is done by the consumers themselves or by small manufacturers in their homes on a very modest scale. Delhi is an important manufacturing centre the annual average production being estimated at ahout 36,000 manufacturers.
- The hookah tobacco manufactured in the United Provinces is famous all over the country. Lucknow, Gorakhpur and Rampur are the best known centres for hookah tobacco in the provinces though it is manufactured in almost all towns and several villages. The annual output of manufactured hookah tobacco in the provinces is estimated at over 6 million manufs.
- (b) Manufacture—The manufactured hookah tobaccos may be generally divided into two types, the Karua or strong and pungent and Mitha or sweet and mild
- In the manufacture of Karva hookak tobacco, the cured tobacco plants if most are first dried by spreading them in the sun on a clean floor. When sufficiently brittle, they are pounded with the help of a big wooden mortar and pestle. The powered mass is then passed through sieves to remove fine sand and earth. Treadle which is an essential ingredient in the preparation of hookak tobacco segmentally prepared by boding molasses in iron pans so as to remove part of the moisture contained in the molasses. In the pre-paration of ordinary Karua hookak tobacco, commonly used by poor people, a quantity of treade ranging from one to one and a half times the weight of tobacco dust is poured on the tobacco powder and well mixed first by weeden laddles and when cool by band and made into balls or eakes of different sizes and shapes (see plate facing page 329). Sometimes powered spices like cloves, cardamom, cinnanon and sandal wood are added at the time of mixing the tobacco dust with treade to manufacture better quality Karvaa hookah

tohacco The treacle is believed to assist the fermentation and consequent decomposition of the tobacco leaves, stalks and mid ribs It imparts a sweet taste, dark colonr and prevents rapid drying

The method of manufacturing high class or Mitha hookah tobaccos, however, is rather complicated and costly and takes a con siderable time before the final product is ready for the market this case tobacco powder is treated with ripe or over ripe fruits like ber, figs, apples, pineapples, plums, plantams and guavas and the whole mass is made into small ball, which are allowed to dry dried balls are then again powdered and a quantity of treacle is added, kneeding the mass constantly with ladles or hand The mass thus treated is then put in hig earthen jars buried in the ground and the mouth of the jars closed with a lid and mud plaster paration which is locally known as Khambira or Khameera is ready after a period of one to three months, though in the manufacture of better quality hookah tobacco, the Khambura is not considered sufficiently mature for nee till it has been in store at least for one year To the Khambira thus obtained another quantity of tobacco powder treated with treacle, is added and the mixture well stirred to ensure a thorough mixing At the time of mixing powdered spices and perfumes like roses, sandal wood, cloves cardamom cinnamon, etc, are added Sometimes the Khambira is prepared without the tobacco powder In such cases, a mixture of fruits and treacle is first boiled and then put in the burned earthen jars which are then closed up and allowed to remain undisturbed for a period ranging from one to six months or even a year Powdered tobacco is then added to the Khambira along with spices and perfumes

There is no definite proportion between the tobacco, treacle, spices and fruits used in the manufacture of ordunary or high class hookah and each manufacturer follows his own taste and jindge ment

In order to increase the bulk and cheapen the coct of manufacture, most of the hookah manufacturers use large quantities of various adulterants the principal material need for adulteration being fine sand, earth, quiek lime rch, or carbonate of soda cotton waste, dired and powdered leaves of trees and corr fibre Enquiries from manufacturers and hookah tobacco dealers indicate that there is no definite or common proportion in the quantities of different adulterants used Each manufacturer trees his own combination and as soon as he sees that a particular combination has captured the consumer's taste, he retains the same as his trade-secret

(6) CHEWING TOBACCO

(a) Extent and location—Over 156 million lb of chewing tobacco leaf valued at a little over 3 crores of rupees is annually consumed in the country About 84 per cent of this quantity is consumed in raw condition i.e., without any process of manufacture In the consumption of this bulk a part of the leaf is taken and chewed as is the practice all over Southern India The other method

of chewing raw tobacco is to take a small hit of powdered chewing tobacco in the palm of the left hand add a small quantity of slaked lime and rub it with right hand thumh, so that the tobacco is covered with a thin coating of lime. The tobacco thus prepared is then put in the mouth and slowly chewed

The annual average production of manufactured chewing tobacco is about 25 million In valued at about a crore and five lakes of rupees. The United Provinces and Delhi are the most important areas for the manufacture of chewing tobaccos and account for almost 30 per cent of the total quantity of chewing tobacco manufactured in the country. In the United Provinces the manufacture is carried out in many towns but the important centres appear to be Lucknow and Benares. Delhi city is also noted for its chewing tobacco.

(b) Manufacture — Many kinds of chewing tobacco are manufactured but the more important types appear to be Zarda paste of Olumn granules or Danadar and pills.

In the preparation of Zarda the tobacco leaf is first broken into small pieces and then bouled in line water along with spaces till the water is evaporated. The particles of tobacco left bound are then dured and coloured with saffron or other vegetable dyes. Sometimes the prepared Zarda is mixed with finely cut hetelmut and other spices.

The method of manufacturing other higher types of chewing tobaccos however is as elahorate as that followed in the preparation of high class kookah tohaccos. Spices and scented waters are liberally used in addition to well flavoured and thick tobacco leaves. The stalks man ribs and veins of the leaves are fix removed and then the leaves are resorded and boiled in water to which scented waters like rose water may be added. Spices like saffron cardamom sinseed and musk are also added in powdered form. The whole mass is then stirred and allowed to digest. The pulpy material is then allowed to dry after straining and removing the remnants of the stalks mid ribs and veins of tobacco leaves. The product then assigness the consistency of a thick and rough paste which is known as Owam.

In the preparation of pills the tobacco pasts as prepared above in the three dried and the material made into small pills which are then further dried in the shade. When it is not desired to make pills the material is fully dried and made into a granular paste, sometimes by adding a further amount of finely cut tobacco leaf. The chewing tobacco thus prepared is usually blackeds in colour has sometimes vegetable dyes are used to give it a reddish tings. The pills and the granules are sometimes coated with gold and silver fools to cater for the demand of richer people.

(7) SNUFT

(a) Extent and location—Snuff is manufactured in several provinces and Indian States but the most important areas appear to be

Madras, the Punjab and the North West Frontier Province, which together account for a little less than one-third of the total production of snuff in the country. The annual average production in India is estimated at 21 7 million lb valued at about a erore and a half rupees.

In the Madras Presidency Madras city and Vangalore are the most important centres for the manufacture of snuff. There are about ten large manufacturers in Vadras city some of whom employ as many as 50 persons per day besides about a hundred small manu facturers. At Mangalore there is a large number of small manu facturers and the bulk of the manufacture appears to be controlled by four big manufacturers. The annual verage production of snuff in the Madras Presidency is estimated at over 3 million 1b

In the Punjab snuff is made on a large scale at Hazro Alpur Rawalpindi, Multan Debra Ghazi Khan and other towns. The annual average production in the province is estimated at a little less than 3 million lb of which 80 per cent is concentration Hazio alone.

In the North West Frontier Province the manufacture of snuff is confined only to Pe hawar where there are about half a dozen manufacturers whose total annual output is estimated at 1 000 to 1 200 manufactures.

(b) Manufacture—In the manufacture of snuff in Madras the first operation consists of the separation of stalks and mid rils from the leaves. The leaft portion is then crumbled into small pieces fried and powdered. The powdered tobacco is then further pounded by means of a mortar and a pestle and then sieved. The sieved tobacco powder is afterwards gently leated the mass being turned over frequently to prevent its being charred. After cooling lime and ghee are added and the mixture is then passed through sieves of fine meshes. The snuff so prepared is then ready for use. Some times must borne acid ammonium salts scents etc, are added in varying proportion to the ordinary, snuff to prepare the scented snuff which is usually mixed in varying proportions with ordinary snuff before offering for sale

In the Punjab the dried tobacco leaves are first erumbled into small pieces which are then ground into fine powder. The powder is afterwards soaked in water for a period ranging from 10 to 20 days when fermentation sets in. When the mixture emits a characteristic odour the fermented stuff is removed and diried. At this stage it is locally known as Khamir. When dry the Khamir his stage it is locally known as Khamir. When dry the Khamir is pounded in a wooden mortar and pestle and then shifted through is pounded in a wooden mortar and pestle and then shifted through is pounded in a wooden mortar and pestle and then shifted through is pounded in a wooden mortar and pestle and then shifted through is pounded in a wooden mortar and pestle and then shifted through in the shifted through is pounded in the shifted through and the shifted through a wooden mixed to cheapen the cost of production. The whole mass is then again ground after which it is again passed through cheese cloth. The grinding and sifting process is repeated until the product attains the desired stage of fineness.

In the North West Frontier Province, the tobacco leaf is first reduced to fine powder. The water mills at Seria Saleh in Peshavar specialise in this granding work. The tobacco powder is then stored for fermentation in closed cells, which are covered with old woollen blankets or quilts for a period of 2 to 3 months. During this period of termentation the powder is sprinkled with water, stirred, aircand again stored. This proces, is repeated till the powder acquire the desirable aroma and strong flavour. Afterwards, lime water and dives may be added in wantl quantities.

B -Adulteration

In the manufacture of eigeneties eigens and cheroots no adulters ton signerally done apart from the "flavourings" used by certain namufacturers. The types of flavourings' used are considered as secret and hence it is difficult to indicate whether or not the "flavourings" used by certain manufacturers are deleterious to heall as already stated, in the United Kingdom the use of even glycorine and die thivline glycol is considered illegal.

In the manufacture of bidis generally no adulteration of any kind is done Different types of tohacco are nowever mixed to prepare a hiend of bids tobacco powder and for this purpose small juantities of hookah tobacco may he used as is done at certain place. in northern India A case of adulteration of bids tobacco has how ever, been recently noted during the course of this survey A certain gentleman from Penukonda in Anantapur district of the Madras Presidency has prepared a so-called economy tobaccomixture" for which he has applied for a patent in British India Mysore State and the Vizam's Dominions The procedure in the preparation of this "economy tobacco mixture ' emissis of select ing Gujerat; or \ipan; tobacco leaves soaking them in water, washing and drying The leaves are then to be treited with a solu tion of sodium nitrate and hydrogen peroxide which, the gentleman claims help ignition and retention of fire. The leaves are then coaked in syrup and kept under pressure for 24 hours. The vrapper leaf used for making bidis is then similarly treated the tobacco leaves and wrapper leaves, thus treated, are then ent mto five shreds and mixed in different proportions say 25 of it bacco to 75 of wrapper leaf, or more commonly in equal shares. This mixture is then used in making bidis in the ordinary way In making these bidis a small piece of cotton wool is placed at the smoking end and this acts like a filter. It is reported that about 2 lakes of bidis manufactured from such adulterated tobacco at bellary are being sold every month at Rs 1-40 per thousand, 10, the same rate for which ordinars types of bidis are sold

Possibly the largest adulteration of tobacco takes place in the manufacture of hookah tobacco. There is a general bluef that hookah smoking is the least imprious to health as the sinche passes through water in the hubble binhiles. (see plate facing page 361) and that it gives more pleasure as compared with eigarettes and bulks. The chief cause, which are responsible for the decline of

kookch muoning are the incohvenience of taking hookah from one place to another, trouble and time required for preparing to tobacco and the smoke and the want of pure and really good stuff in the market. The general quality of the hookah tobacco availation in the market is considered to be very inferior on account of a high proportion of admixture with sand earth and other adulterants. If the manufacturers standardies their articles, adopt registered trade marks and certify and publish actual constituents of their prepared hookah tobacco, it would appear possible to increase to a small extent the local demand for the manufactured article inspite of the fact that many of the labouring classes and men of small means are increasingly taking to brists and cheep eigarettes.

As in the case of hookah tobacco many of the prople in the habit of chewing tobacco prefer to have pure stuff and heing unaware of the contents of the manufactured chewing tobacco refrain from using it if however, the manufacturers of chewing tobacco use labels describing the formula or the recipes of the ingredients used, as is done in the case of some of the patent mediennes and other proprietary articles manufactured in European countries, there seems to be a i kelihood of increasing to a small extent the internal demand for manufactured chewing tobacco

C -Trade marks and brands

All the leading manifacturers of cigarettes cigars chernots and that their own specific brands some of which are reported by them to be registered. There is however no adequate provision of law in British India for the registration of trade marks so as to establish statutory title to them. The existing law for preventing the imitation of popular brands is reported to be very cumbersome.

There have heen several complaints both from the Inu an and British manufacturers and merebants of the flagrant copying of well British manufacturers and merebants of the flooding of the markets with cheap inferior imitations of popular brands of goods of all kind. This has been particularly noticeable so far as tobaced trade is concerned in the case of cigarettes cigars and bids (see plate facing page 328) of na eccount of the copying of trade murks and brands the owners of na eccount of the copying of trade murks and brands the owners of na eccount of the copying of trade murks and brands the owners of national sections are presentation and the consequent loss of business in many cases is permanent.

Though there is no legal provision in India for resilitation of trade-marks and brands many manufacturers get their brands represend with the local Departments of Registration There is no provision in the Indian Registration Act for the registration of provision in the Indian Registration Act for the registration of provision in the Indian Registration Act for the registration of Departments only an expension of the practice obtaining in many areas is to engross a deed of declar rais on describing therein the trade marks and declaring it countries for the declaring the force of the declaring the provision of the decument may be signed hefore a Magistrate or a Justice of Deace. The executant presents the deed for registration in the Peace. The executant presents the deed for registration office where it is registered in this process, it is the document that is registered and not the trade-mark itself

In spite at the fact that a law for the registration of trade mark does not exist in India protection to owners of trade marks is gue by certain sections of the Indian Herchandise Varles Act of 1859 and of the Indian Penal Code. There is however no adequate protestion for statintory title to a trade mark and when the title to a trade mark has to be proved protection is sought under the prosions of the above two Acts. While seeking protection mader these Acts complaints can be with evil courts for injunction of for damages but as the civil procedure is often considered to be expeasive and slow protection is sometimes, sought in criminal courts.

It is further found that some manufacturers in Indian States copy well known trade marks and brands particularly of bals it such cases recourse must be had to the laws of the States concern and it is reported that it is often I fficult to secure the necessary protection

It is therefore very executing in the interest of the development of trade that complete legal provision should be made for the registration and protection of trade maris and branish in British India and also in all Indian States. In this connection it may be observed that the Government of India have already got this question in had and it is expected that a bill may be introduced in the central legislature in the near fature.

D -- Prices of tobacco products

(1) CIGARLITES

The wholesale prices of all popular brands of cigarettes are furly uniform all over the count except in Indian States where they are influenced by the amount of import duty levied by the States Tle wholesale rates of Whole

Similarly the price of a 50 eigarette tin of "Craven A" and "State Express, 555" cost Rs 140 and Rs 180, respectively almost in any town of British India and Burma

The extent of margin between the vholesale and retail prices may be seen from the following few typical examples —

Margin between the uloles le aid retul prices of cigarettes

(Pe thousand eigare tes)

		1	Wall « Ge	id Flake	Charminar	Guinea Gold			
			Allahabad	Travancore	Hyderahad (Dn.)	Madras			
Who e-ate		Rs A F 21 > 0	P _{5 A} F 23 6 0	Rs & P	R A F				
Retail						100			

Wholesale and retail prices of 1st quality cigareties, harvest prices of Virginia flue-cured tobacco at Guniur and declared values of imported unmanufactured tobacco

Year			Alla:	habad	1		L	R	ngc	on.			Ha pri	ces	of	Declared value of imported		
		gare		Per of l ret	10 c	ton aga				of:		iga	fiuc to at G	bac	ndy	fa to	ma ctu bac	nu red co
	Rs	A	P	Rs	A	r	Rs	A	r	Ra	A	r	Ra	A	Р	Rs	٨	P
1932	21	1	9	0	3	6	21	4	0	0	3	6	154	0	0	1	0	9
1933	19	5	7	0	3	6	21	4	0	0	3	6	148	0	0	1	3	6
1934	21	5	0	0	3	6	21	8	0	0	3	6	127	0	0	1	2	1
1935	21	ō	Ð	0	3	6	21	£	0	o	3	6	143	а	0	2	2	v
1936	21	,	0	0	3	6	21	8	0	0	3	6	150	0	0	1	1	11
1937	21	5	0	0	3	6	21	8	0	0	3	6	187	0	0	1	7	2

What is true of Allababad and Rangoon is equally true for other places. It is evalent that there is no change in the retail prices of eightests, though wholesale prices vary occasionally to a small extent. It is also evident that there is no relation between the prices of Indian and imported cigarette oblace and those of cigarettes. In fact it appears to be the policy with all leading cigarettes many facturers not to make any change in the cigarette prices, particularly in the retail rates charged to consumers as almost every smoker of one of the popular brands of cigarettes will remember that during the past several years there has been no change in the price he pays for his cigarettes.

It may be honever observed that in the case of a few popular brands, there has been a definite reduction in the wholesafe and relaif prices during the past four or five years. Thus for example, the wholesale price of a leading brand of eigarettes in Debi in 1933 was Rs 176 oper thousand as against Rs 1460 per thousand from 1934 onwards. This considerable reduction in price was possible because until 1933, these eigarettes were being imported from abrord but from that year onwards they are being manufactured in India and offered at lower rates to the public.

^{*}These figures refer to financial years commoning from April 1 The figures some against 1932, 1933 etc., are for financial years, 1931 32, 1932 33, etc., as it takes some time before the unmanufactured tobacco is used in making eigereties

(2) CIGARS.

There are numerous brands of eigars available in the nailset and there is considerable confusion in the names of brands. Many manufacturers adopt the same or similar names for their brands. The most popular eigars are those manufactured by two hrms at Dindigul and Madras. Cigars manufactured by smaller manufacturers at Trichinopoly have less keen demand

Cigars are sold in boxes containing 25 50 or 100 eigars and a box of eigars forms the unit of sale in wholesale and retail trade, except them they are sometimes retailed singly by hotels restaining and tohacconists. So far as the catalogue prices are concerned there is no difference between the wholesale and retail prices. The mann facturers allow a discount ranging from about 5 to 40 per cent on the published prices to all eigar dealers and tobacconists. The cheaper brands are allowed a lower rate of discount than that per mitted on the more expensive brands. The price of a box of 50 eigars varies in accordance with the type and brand and may range from Rs 200 for "Planter's Ordinary Ao 1 (Spencer's) to Rs 12100 for "Cauno Coronas de Luxe (Spencer's).

Enquiries indicate that there has been practically no charge in the prices of cigars at least during the past ten years and there is complete absence of seasonal variation in prices. Except in sweral indian States where prices are inflated on account of the levy of import duties license fees set the prices of cigars are almost uniform all over the country as it is the practice with manufacturers to hear the transport, octro terminal and other charges incidental to despatch of cigars to the dealers. Variation of prices from one dealer to another is small and occasional as it is one of the conditions of wholesale purchase that cigars will be sold to consumers at fixed prices.

(3) CHEROOTS

High class cheroots like the Oakes & Co's cheroots and "Moulmein" cheroots mannfactured by Spencer and Co sell at prices ranging from Rs 2 to Rs 5 for a box of 100 cheroots in secondance with the type of the brand In the case of these cheroots all other is no seasonal variation in prices and no notice salte chance in prices has been observed during the past ten years

The prices of Burmese eheroots vary in accordance with the type and size Superior quality strong cheroots (Hss byin letis) are cold at Rs 2 8 to Rs 3 0.0 per bundred whole-ale and half an anna per cheroot in retail The prices of ordinary bazzar quality asked and 1/12 to \(\frac{1}{2}\) of a mans to Rs 1 2 0 per hundred whole-strong cheroots range from 5 amas to Rs 1 2 0 per hundred whole-strong cheroots vary in accordance with the size and 1 ind of Burmese cheroots vary in accordance with the size and 1 ind of burmese cheroots vary in accordance with the size and 1 ind of burmese cheroots when are 11 to 13 inches long and for which the wrapper used is the sheath that envelops the leaf for which the wrapper used is the sheath that envelops the leaf for which the wrapper used is the sheath that envelops the leaf for which the wrapper ared is the sheath that envelops the leaf for which the wrapper ared is the sheath that envelops the leaf for which whole-all rates and in retail 2\(\frac{1}{2}\) to 6 annas may be

charged per cheroot Such cheroots are however used on eete monal occasions. The wholesale prices of other sizes of cheroots of the same type as above range from 12 annas to Rs 2120 per hundred and in retail each cheroot may be sold for ½ to ½ of an anna The cheroots for which maize cols beauth is used as wrapper are sold at Rs 120 to Rs 140 per lundred wholesale and in retail each cheroot is sold at 2 to 3 mes.

In the Midras Presidency the ordinary common twisted choron widely used by smokers in Southern India may sell whole sale at Rs 170 to Rs 10 per thousand Brands which are cheaper selling at less than Rs aper thousand are more commonly smoked. The retail prices range from one to five annas per bundle of 25 cheroots.

Both in Burma and Madras there is no seasonal variation in prices aleading manutacturers. The change in prices if any is governed mostly by competition from other manufacturers.

(4) Bidis

The wholesale and retail prices of bidis particularly the former vary almost from one manufacturer to another. The following figures indicate the range of wholesale and retail prices in some of the important areas.

Wholesale and retail prices of bidis

Area	Wholesale per i 000 6 dis	Retail per bun ils
Bengal	Re 100 to Re 150	6 to 9 pies
Bombay	Re 100 to Rs 1100	6 to 9 pres
Madras	Rs 136 to Rs 1 153	6 to 12 pies
C 'P	Re 0 14 6 to Rs 1 2 0	6 to 9 pies
Punjal	Rs 1 4 3 to Rs 2 5 0	9 to 15 pies
U P	Re 0 10 0 to Rs 1 0 3	6 рзев
Delhi	Re 100 to Rs 200	6 to T' pics
Assam	Re I 0 0 to Ps 1 4 0	6 to 9 pies
Hyderabad (Dn)	Re 0 10 8 to Rs 2 3 5	4 to 12 pies
Burma	Ps 1 12 0 to Rs 2 5 0	12 to 15 pies

It is observed that there is practically no seasonal variation in the prices of bids and even year to year variation is only occasional and takes place whenever there is competition among bidi manufacturers. Enquiries made of some of the leading bidi manufacturers in the Central Provinces indicate that during the past eight vers bidi prices have declined by about four annas per thousand chefth as a result of competition among the munifacturers them selves. Generally variations in the prices of bidi tobacco affect but little the prices of bidis.

(5) MANUFACTURED hookah TOBACCO

Bulk of the manufacturers themselve, retail the hookah tobacco Prices var from (1. manufacturer to another in accordance with the kind and quantity of ingredients and adulterants used in manufacture. The retail prices of ordinary hookah tobacco range from 2 to 4 annas per seer while those of expensive types may be as high as Re 1 to Rs 2 per seer. The wholesale prices are generally 20 to 30 per cent lower than the retail prices. In common with other tobacco products there is almost complete thesence of seasonal variation in prices and it is further observed that there is practically in relation between the prices of manufactured hookoh tobacco and those of the immanufactured product.

(6) MANIFACTIPED HEWING TOBACCO

In the case of manufactured chewing tobacco the manufacture, is the price of each quality in accordance with the kind and quality of tobacco and other ingredients used. In few of the tobacco products does such a wide range of quality and prices exist. The lost of the tobacco forms but a fraction of the total cost of manufactured chewing tobaccos and in fixing the prices the cost of other ingre lients used like nutness muck saffron scents cardamon and other spices play a dominant part. The following figures show the range of prices for different kinds of chewing tobaccos sold by a leading manufacturing firm in Delbh Citi.

Price of cheung tobacco in Delhi

	_		re	T St	ær	,		_	_		_	_		_	_
Name of chewing tobacco	Qu:	st Drs	,		nd alt	ا و		rd	ty		th	у		th ali	t y
Zafrans Benares Patts	ĺ									ì			Rs	A 0	
Tobacco Mushla Danadar Mushla Pada				37									,		٥
Zafranı Benarn Pattı Sada	2	8	0		0	Θ,	1	8	0	}					
Tobacco SurIh Patts	32	0	0	16	0	0	9	0	0	5	0	a	2	8	0

The prices given in the above table are wholesale rates and the retail prices are generally about 25 to 30 per cent higher. The unit

of retail sale is a tola and the retail prices range from 1 anna to Rs 4 or even Rs 5 per tola. Since the cost of tobacco itself forms but a fraction of the total cost of manufacture of chewing tobacco the level of prices of immanufactured tobacco has no effect on the price of manufactured chewing tobaccos and seasonal variations and year to year fluctuations are occasional. Changes in prices if any six made entirely on account of competition from other manufacturers.

(7) SNURT

The prices of snuff also are governed to a large extent by the kind and amount of ingredients used in manufacture. In Madris the wholesale rates range from 10 annas to Rs 16 per seer while in the case of high class snuff sold in Bengal the prices may be as high as Rs 16 per seer. Similar are the price variations observed in other areas. The retail sale is very rarely done on the basis of wheelth and almost all consumers purchase snuff in retail either in packets or phials. Generally the retail rates are about 12½ to 25 per cent. higher than the wholesale prices. The periodicity and trend of prices are almost non existent and the prices are governed almost entirely by competition among the manufacturers and the cost of manufacture.

E -Distribution

The total sz factory value of all the tobacco products includ ing unmanufactured tobacco consumed in its raw condition as in the case of hookah and chewing is estimated at about 37 cores of rupees Adding at a moderate estimate 25 per cent on account of transport and distributing charges the total value of tobacco trade can be easily estimated at over 46 cores of rupees per annum

(1) WHOLESALE TRADE

The wholesale distribution of tobacco products is done by one or more of the following methods —

- (a) Manufacturer's distributing depots
- (b) Distribution through agents and sub agents
- (c) Distribution through travelling inspectors
- (d) Direct sale to retailers and consumers

(a) Manufacturer's distributing depots—Almost all the leading eigarette manufacturers in the country and a few bids manufacturers from the Central Provinces have opened their distributing depots at centres located in important consuming areas. These distributing depots usually supply goods to their respective agents and sub agents within their jurisdiction. Direct sale to consumers is not made by these depots but goods may be supplied to retailers when agents and sub agents do not exist.

[Facing page 342



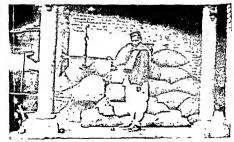
Weighing tobacco in Guntur



Weighing tobacco in Guntur



A country tobacconist s shop retailing chewing and smoking tobaccos.



Weighing tobacco in villages in the Charotar area of Bombay Presidency.

(b) Distribution through agents and sub agents—All eigerette factories and a few bud manufacturers from the Central Provinces, Madras and Bombay appoint agents to serve specified areas. In the case of leading eigerette manufacturers the agents are generally given sole rights of distributing particular brands of eigerettes. When sole agents are appointed the manufacturer does not supply the goods direct to the retailers or other wholesalers. In case the area allotted to an agent is large sub agents are appointed on the recommendations of agents but the sub agents are usually supplied with goods by or through the agents.

For their services the agents and sub agents get commission from the manufacturers. The rates of commission vary from one manufacturer to another and in accordance with the brand of eigarettes sold. The rate of commission is lower for low grade than for high grade cigarettes and generally varies from 2 to 10 per cent. of the gross value of the eigerettes supplied to the agent. In the case of new brands of eigarettes put on the market and new cigarette factories the rates of commission are usually high and may range from 10 to 20 per cent The agents and sub agents are supplied engarettes f o r to the nearest railway station and charges on account of handling and transport from the station to the agent s godown are usually borne by the agent bimself. Very often the mannfacturers themselves defrat the charges on account of ortron and terminal charges if any Some manufacturers allow tierr agents to return the stock of unsold eigarettes and empty packing cases for which refund is given on rates varying from 4 annas to one rupee per case All cigarette manufacturers usually prefer to make sales to their agents in cash but generally credit is allowed for a period ranging from a week to a month. Usually it is the condition put by the manufacturer that the agent or sub-agent shall not deal with eigarettes manufactured by other companies. Nearly half the commission allowed to the agent is passed by bim to the sub agents and retail dealers The agents and suh agents usually have instructions to ask the retail dealers to sell the eigarettes only at standard retail prices

The distribution of eigars cheroots and pipe and cut tobaccos is done in a similar manner

The mannfacturers of bidis allow a commission ranging from Re 1 to Rs 2 per bag containing about 40 thousand bidis

In the case of other tobacco products viz hookah chewing and sunff there is generally no system of appointing wholesale or distributing agents

(c) Distribution through travelling inspectors—All the important eigenette manufacturers and a few eigens and bidi manufacturers appoint travelling representatives or inspectors who go
from place to place advertising their respective goods and carcassing
for orders. In case the travelling inspector enters an area normally
served by an appointed agent he is to work in consultation with the
agent. The inspector goos from place to place and on receipt of

orders passes them to the respective agent or direct to the factory if there is no appointed agent for the area in which he has secured orders

(2) RETAIL TRADE

The dealers who retail tobacco products are usually panuallas, proven and oliman stores hords and restaurants and tobacconists (see plate facing page 343). Specialised tobacconists' shops dealing in cigarettes cigars pipe and cut tobaccos etc are only found in big cities like Bomban Madras Calcutta Delhi Labore etc Bulls of "Le retail distribution is done by panuallas and provision and oilman's stores.

(agarettes are sold to consumers either in cartons of 10 s or in time of 50's. The pronvallos also retail eigarettes by numbers as one or two per pice. Buts are retailed either per bindle of 25 buts or per count for a pice. Cigars and cheroots are retailed by boxes or packets but in Madras and Burma the local cheroots are retailed either in bundles of 25 or hr count per unit of value, eg one anna crone pice. Pipe and cut tobaccos are invariably retailed in scaled tins by provision stores and tobaccomists.

Manufactured hookah tobacco is retailed by weight of a seer or fraction of a seer. Manufactured chewing tobaccos are also retailed his weight hut in the case of high grade chewing tobaccos the unit of retail sale may be as low as one tola or 1/80th of a seer. Snuff 19

on eigratites eigars ind cheroots may range from 8 annas to lis 5 per maund while that on unmanufactured tobacco may vary from 9 pies to 8 annas per manud Bids may be charged at 1½ annas to Re 1 per maund while the same rate is levied on chewing tobaccos

In the Punjub the tax ranges from 1 mma to 8 annas per maund of unminufactured tobacco 2 annas to Rs 4 per maund of eigarette eigars and cheroots and 1 mma to Rs 280 per maund obtain 10 Delh the of terminal charge is 8 annas per maund on foreign tobacco of all 1 mds including Indian and foreign eigarettes ciga s and cheroots 2 annas per mund on Indian unmanufactured tobacco of all sorts and 6 piece per manned of tobacco dust

In Mysore octroi el arges are levied by all municipalities. The totace of pies to 2 mins per 1000 dots 1 anna to 4 annas per 1000 dots 1 anna for 1000 dots 1 annas per cart drawn by two bullocks and 2 annas for single rate is 4 annas per cart drawn by who bullocks and 2 annas for single trade in bid tobaceo the local minicipality levies both the toll and octroi charges. The rate of toll charge is 2 annas per cart load and that of octroi in the period of toll charges are collected at the rate of 4 annas per cart load and that of octroi in any toll charges are collected at the rate of 4 annas per cart load of 4 Annas per cart load of 4 for annas per cart load of 4 for annas per cart load of 4 annas per cart load of toll and 4 annas per cart load of toll and 4 annas per cart load of toll annas per cart load and 4 annas per cart load of toll and 4 annas per cart load of toll annas to per load of the design of the desi

G -Licensing and control of tobacco trade

Among the Indian provinces only Bombay and Sind have got a system of hecessing all fobraco traders. Mijority of the Indian State lery unport and export drites on tobacco and tobacco products and some States like Cochin and Patiala have adonted a system of anctioning out the rights to trade in tobacco and tobacco products in Travancore apart from heavy import duties all tobacco dealers are hecessed.

In Burma no restrictions exist in regard to trade and manufacture of tobacco

It may be stated at the ontset that the system of licensing and other methods of control existing in certain Indian provinces and States aims entirely at the collection of revenue and no attempts have so far been made to control with a view to develon trade. In many countries of the world (cg. Jipan France Italy Spain etr.) Governments themselves are now controlling some or all the stages of the tobacco trade and industry. Tobacco industry is one of the few which has suffered practically no set back during the recent

depression period and many Governments in Europe and America consider it exeremely important to improve and develop their tohaceo trade as it forms an important source of revenue. In this connection it may be mentioned that in the United Kingdom tohaceo produces more revenue than any other item of the Customs and Excise Tariff, having displaced beer in this respect after the reduction of heer duty in 1933. In 1936 the net amount of duty collected on tohaceo was nearly 75 million pounds sterling. Even in the United States of America, the home of the world's commer call tohaceo types, tobaceo ranks second among the sources of internal revenue and third among all sources of ordinary revenue Over 440 million dollars are collected annually

(1) BOMBAY

In Bombay City, a duty on tohacco is levred under the Tobacco Duty (Town of Bombay) Act of 1857 at a uniform rate of Rs 30 per manud on all tohacco and its products, as already noted in the preceding section. In addition, all tohacco dealers are charged a small hence for the Act was amended early in 1938 to permit an increase in hience fees and according to the rules recently frimed under the amended Act an annual fee of Rs 2 for a heence to sell superior tohacco by retail to persons holding hiences for sale of superior tohacco by retail and a fee of Rs 48 to others are being charged from September I 1938. In the case of inferior tohacco, the hience fees are Re 1 and Rs 24 respectively. Combined hiences for the sale of superior and inferior tohaccos to hience holders and non hience holders are also issued on payment of fees prescribed for such combined licences.

Superior tobacco is defined to consist of eigarcties, eigars and manufactured tobacco ready for rolling eigarcties, while all other types of tobacco and tobacco products are classed as inferior tobacco

For a licence to sell at any fair fete, dance or other entertain ment, a fee of Re 1 per day is charged, for every day on which such fair, fete, dance or entertainment is held, subject to a maximum of Rs 25 in the case of licence to sell inferior tobacco and of Rs 50 in the case of hence to sell superior tobacco.

The duty and licence fees levied in the town of Bomhay on tobace and tobaceo products yielded in 1937 38 a revenue of about Rs 17 63 lashs which is expected to rise on account of the proposed increase in licence fees. The duty is collected by the Government of Bombay and till 1937 38 the net proceeds were paid to the Bombay Municipal Corporation and the Bombay Improvement Trust in a certain proportion. The Government have, however, now decided to an proportior from 1938-39, Rs 5 lashs from the proceeds of the duty

In other parts of the Bombay Presidency, every dealer has to possess a licence for dealing in tobacco or its products, in accord ance with the provisions laid down by the Bombay (District) Tobacco Act of 1933 as amended in 1935. The schedule of icence fees was as under —

Wholesale business Reta I bus ness or hauk n_b.

Rs 15 per venr

Ps 2 per year in any case where the aggre gate sale in any year does not exced R= 200

L cence for a broker Other cases

Ps * per year

Other cases

Re 1 per cent per year on the aggregate sale in any one year

This tax prevailing all over the Presidence except the Town of Bombar yielded a revenue of Rs 2 33 lalks in 1937 88 and is

expected to give in additional recenue of about a lable of rupees in consequence of the proposed increase in the rafes of licence fees. With the object be Bombas (District) Tobacco Act was under the proposed in accordance with the rules framed under the proposed of the proposed for the proposed for the proposed of the proposed for the proposed of t

under the provisions of the amended Act the rates of licence feet base been raised from September 1 1938. It is proposed that under the new rules a person holding a licence for wholesale sale shall subject to a minimum of Rs 280 and a maximum of Rs 50 be assessed at the following rates.

and a series	Lacence f e
Less than Rs 500	Re A 2
Rs 500 to Rs 999	2 8 0
Ra 1 000 to Re 2 999	5 0 0
Rs 3 000 to Ps 9 999	10 0 0
Re 10 000 to Rs 19 999	20 0 0
Rs 20 000 and over	40 0 0
TO SECURE OFFE	< 0 0

For a brokers in enne a fee of Rs 2 per annum is charged while the leaene fees charged to retailers and bawkers are subject to a maximum of Rs 50 in the case of superior tobacco and Rs 25 for inferior tobacco in any urban area which the Government may by notification published in the official gazette specify. In other areas Rs 2 per year are to be charged for a retailers or hawker's heence

In accordance with the Sales tax Rules framed under the amenced Act a sales tax of 12½ per cent is to be levied on the wholesale or retail sale or sale by a hawker of tobacco in the munepia areas of Bandra Kurla Vile Parle Andheri and Ghatkopar and Ahmedabad City and Cantomment and Sholapur City

(2) SIND

Since Sind formed a part of the Bombay Presidency prior to Application 1936 all the tobacco dealers in Sind were licensed under the provisions of the Bombay (District) Tobacco Act of 1932 as amended in 1935 till Varch 31 1938 From this date the Bombay (District) Tobacco (Sind Amendment) Act 1938 came into force and the animal licence fees were raised to Rs 50 for wholesale trade the fees charged to retailers ranging from Rs 2 to Rs 4 per year. The licence fee for a broker remains unchanged at Rs 2 per annum

(3) TRAVANCORE

The tobacco trade in Travaneore State is controlled by levying import duties and licensim of dealers in tobacco. The import duty on immenufactured tobacco imported from laftina in Cerlon is a high as Rs 13 pper cond of 600 lb. On civarettes an import if y of 20 fer cent i charged whole on everas the rate of duty is 12 per cent on other types of tobacco and tobacco products the rate of duty is 8 per cent. The animal revenue realised on account of import duties ranges from 27 to 99 lalls of rupees

In 1933 36 about 800 wholesale hrences and over 12 000 retail incence, were issued for the sale of tobacco and tobacco products in Travancore State. The wholesale dealers pay to the Government a heene fee of Rs 10 per annum while retail merchants are not per mitted to have any stock more than 10 lb of tobacco and cannot sell more than 1 lb at a time

[Manufacture and distribution of tobacco products

INTER CHAPTER TEN

The total whole-ale value of all tobacco products is estimated at about 37 erores of rupees. This includes manufactured products such as cigarettes, etc., and unit antifactured tobacco consumed in its raw condition, as in the case of hool ah and chewing tobaccos. Adding at a medical estimate 25 per cent on account of transport and distribution charges, the total value of the tobacco trade can be safely estimated at over 46 erores of rupees per annum.

There has been a rapid rise in the manufacture of cigarette- during the past 15 years In 1923 there were only 11 eigarette factories employing on an average about 5,000 per-ons per day In 1935, the number of cigarette factories increased to 22 of which four employed on an average 4 600 persons per day while the remaining 18 were employing about 3 400 persons daily The annual production of eigarettes in India is estimated at about 7,500 million eigarettes valued at nearly six crores of rupees The Tobacco Manufacturers (India) Ltd. and the Cigarette Manufacturers (India) Ltd are esti mated to produce three-fourths of the total annual eigarette production. The selling organisation of these two companies, viz, the Imperial Tobacco Company of India Ltd., handles 75 per cent of the total trade of ciga rettes in India, including imported goods Cigarette factories are spread all over India, but the more im portant ones are located at Bangalore, Mongbyr, Saharaapur, Calculta Bombay, Sukkur and Hyderabad (Deccan)

Cigars are made almost entirely at Dindigul, Trichinopoly and Madras The trade and hence the volume of manufacture of eigars is steadily declining At present about half a million lb of tobacco is used in the manufacture of cigirs annually and the number of cigars manufactured is estimated at about 30 millions valued at about 15 lakhs of rupees

The manufacture of cheroots is confined almost entirely to the Madras Presidency and Burnia Cheroot making is practised as a cottage industry all over the Madras Presidency and parts of Mysore and the Nizam's Dominions. The annual average output of cheroots in India is estimated at 90 to 92 million lb or about 18,500 million cheroots valued at over 9 croics of rupees.

In Burma cheroot rolling is essentially a small local industry, wemen who are rollers with some degree of skill, being found in almost all towns and in most of the tobacco producing villages. The work is generally done and the business managed by women. On an average about a thou-and million strong cheroots using about 24 million lb of tobacco are annually manufactured in Burma. In addition a little over 6,000 million mild or total cheroots for which about 58 million lb of tobacco is used, are produced annually. The value of the annual production of strong and mild cheroots is estimated at 8.7 cr. res of rupees.

There is practically no area in India where bidts are no insunfactured to some extent. Over 75,000 million bidts are annually manufactured in the country using about 70 million ib of tobacco. The total value of the munifacture is estimated at 7.5 errores of rupees. Almost one fourth of the total production is concentrated in the Contral Provinces which hold a dominant place in the interprovincial trade in bidts. Madras and Bombay together contribute about 40 per cent to the total bidt production in the country, while the remaining production is distributed over the remaining part of the country.

The manufacture and consumption of hookah topaceo is almost entirely confined to the northern provinces, viz, the North West Frontier Province, Punjab Dellin, United Provinces, Bihar, Bengal, Assam and parts of Rajputana and Central India The annual production of hookah tobacco in the country is estimated at over 1,300 million lh valued at about 9 6 crores of runees Almost two fifths of the production is confined to the United Provinces

The United Provinces and Delhi are the most important areas for the manufacture of chewing tobacco and account for almost 90 per cent of the total quantity of chewing tobacco manufactured in the country Over 156 million lb of chewing tobacco leaf valued at a little over 3 erores of rupees is annually con sumed more than four fifths being consumed in raw con ditton, i.e. without any process of manufacture

Snuff is manufactured in several provinces and Indian States but the most important areas appear to be Madras, the Punjab and the North West Frontier Province The annual production in the country is estimated at 21 7 million lb valued at about a crore and a half of rupees

No adulteration is generally done in the manufacture of eigarettes eigars and cheroots except the "flavour mgs" used to certain manufacturers. The composition of "flavourings" is considered secret and hence it would be difficult to indicate the nature of the "flavourings" used to certain a antifacturers without further detailed investigation. It may be stated that in the United Kingdom, the addition of solid matters and even the use of glycerine and diethylene glycol is prohibited in products meant for home consumption, though the use of essential cils for the purpose of flavouring any tobacco product and of olive oil and sweetening matter in the case of ynoking tobacco is permissible. In the

manufacture of bidis no adulteration of tobacco is gene tally done, but a case was noticed in the Madras Presi dency where finely cut bidi wrapper leaf was mixed with bidi tobacco before manufacturing bidis in the ordinary way This is definitely an attempt to sell to consumers as tobacco something which is not tobacco. Possibly the largest adulteration takes place in the manufacture of hookah tobacco where large quantities of fine sand, earth. quick lime, ich or carbonate of soda, cotton waste, dried and powdered leaves of trees, etc. are used to mix with tobacco The general quality of hookah tobacco avail able in the market is considered to be inferior on account of adulteration and many hookah smokers prefer to pre pare their own hookah tobacco Similiarly many of the people in the habit of chewing tobacco prefer to have pure leaf and being unaware of the contents of the manu factured chewing tobacco, refrain from using it If the manufacturers standardise then hookah and chewing tobaccos, adopt registered trade marks and certify and publish the actual constituents of their products, there seems to he a possibility of increasing to some extent the internal demand for manufactured hookah and chewing tobaccos

There is severe competition among manufacturers, particularly those of cigarettes eigars cheroots and bilds. Trade marks and other distinguishing marks are frequently copied, while wholesale and retail distinuitors are official by immufacturers all surts of attractive terms to push the sale of their respective products. These defects should be remedied by the hetter organisation of manufacturers to regulate output and distribution and by making a more comprehensive legal provision for the registration of trade marks. It is understood that the Government of India propose to undertake the necessary legislation in the near future

There is a complete absence of periodical variation in the prices of any tobacco product, excepting possibly

in the case of new brands put on the market by new manufacturing concerns. Even year to year variation is rare put toil uly in the retail priess charged to consumers though some manufacturers occasionally make a slight reduction in wholesale prices of some of their brands whenever there is competition from similar products of other companies. Usually there is no apparent relation between the priess of tobacco products and those of in manufactured tobacco.

The imposition of octroi terminal and other charges by municipalities and other local authorities hampers the development of trade in many places increases dis tribution costs and penalises the local merchants and manufacturers to the advantage of the others elsewhere where such taxes are lower or do not exist. An extreme example is that of the town of Bombay where the tax (known as tobacco duty) is as high as Rs 30 per maund on all tobacco and its products, the duty on tobacco pro ducts being levied on the basis of tobacco contents. At many other towns and cities, the rates of octror and ter minal charges vary from 1 anna to Rs 5 per maund of cigarettes 8 annas to Rs 5 per maund of cigars and cheroots 14 anna to Rs 3 per maund of bidis, 1 anna to 10 anna per manual of unmanufactured tobacco 1 to 8 annas per maund of hoohah tobacco, 1 to 12 annas per maund of chewing tobacco and 1 anna to Rs 180 per mound of snuff. The hampering effects of these taxes on the development of trade in agricultural products can hardly be over estimated and it is suggested that the local authorities concerned should take steps to remove these disabilities

Bombay and Sind have adopted a system of charging hierone fees to all tobacco traders. The majority of the Indian States levy import and export duties on tobacco and its products and some States like Cochin and Patala follow the system of auctioning out the rights to trade in tobacco and tobacco products In Travancore, apart from heavy import duties, all tobacco dealers are licensed The system of licensing and other methods of control adonted in Bombay, Sind and some Indian States aims entirely at the collection of revenue and no attempts have so far been made to exercise coutrol with a view to developing the trade on proper lines In several other countries, eg, Japan, France, Italy, Spain, etc. the Governments thmeselves are now managing some or all the stages of the industry and trade. The tobacco industiv is one of the few which has suffered practically no set back during the recent depression period and many Governments in Europe and America consider it ex tiemely important to improve and develop their tobacco trade as it forms an important source of revenue tobacco in India is ever to constitute a permanent source of revenue it would be a mistake to neglect to take suitable measures to purpove and develop its production. trade and manufacture The need for uniformity of taxation and for concerted and co-ordinated action by all concerned should be carefully considered

CHAPTER XI -MISCELLANEOUS

A -Weights and measures and units of sale

(1) CURRENT WEIGHTS AND UNITS OF SALE

Unmanufactured tobacco is almost invariably sold by weight and never by measure. The system of veights adopted in different parts of the country is most complicated and in many cases incomprehensible. Very often the weights for buying and selling are different and the weight of a manumal tobacco from the growers is different and higher than the weight of a maind used by merchants while selling. In some areas e.g. Bengal Bihar and the United Provinces the village weights are very largely of stones and brids stamped iron weights being extremely rare. In some parts like the North Bihar stones are not easily available and stone weights one made may be used for a generation.

In the North Bengal area the weights used vary even from one area to another of the same district In Rangpur district for example a seer may be equal to anything from 60 to 93 tolas A maund ranges between 40 and ol seers. The weight of a kalachands maund in this district is as much as 21 600 tolas or 270 standard seers of 80 tolas In accordance with the provisions of the Bombay Weights and Measures Act the weights used in the Charotar and Nipani areas are now standardised it Sangh and Jayasingpur the unit of weight is an atla of about 224 lb. In the Guntur area farm oured leaf is sold in terms at a canda of a00 lb while in other areas of the Madras Presidency there are several other units of sales as poths bharam thulam putty maund sees etc. In the North Bihar area the unit of sale is a maund but its weight varies from place to place even in the same district. In Patna district alone where there are about a dozen systems of weights the weight of a seer may be anything from 44 to 88 tolas In the United Provinces a maund of tobacco weighs 55 seers at Farrukhabad 481 seers at Camppore and 46 seers at Benares Similar variations are observed in the Punjab where the weight of a seer may be as low as 32 tolas and as high as 100 tolas In the North West Frontier Province each district in the province has its own local seer of different denomina tions (in tolas) In Pesbawar a seer is equal to 100 tolas A Peshawari maund weighs about 108 lb

In the Mysore State the unit of sale is the local manual Is weight is not however the same through in the State. At Ravandar a maund is 32 lb at Star 283 lb while at Alur it is 26½ lb. There is a weights and measures regulation in force in the Uisore State which defines the local standard manual of 40 seers of 24 tolas each and also enforces the compulsory use of the local standard weights and measures in the important trade centres of the State The important tobacco markets however are not included in the list of places where the use of the local standards is enforced. In the Bardad State the normal weight of a local manual is 40 lb but in the sale of grower's tobacco the weight of a manual which wares from village to ullage may be anywhere between 42 and 47 lb

The unit of sale in Burma is the tiss of 3 6 lh

(2) SCALES.

Large beam scales are used in the wholesale trade while hand scales are used for weighing smaller quantities. Except in the Guntus area standard scales like the Avery's halances are very rarely used by merchants at the time of husing unmanufactured tobacco from the growers Platform halances and weighing machines are almost exclusively used by elegarette tobacco leaf buyers in the Guntur area (see plate facing page 349). An ordinary beam balance used in villages and markets consists of an iron heam at the two ends of which are hung by means of stout iron chains or ropes the pans made of wood or bamboo strips or cane or occasionally of Sometimes there is only one pan on which a hundle or had of tobacco is put the weights being hung on the other side (see plate facing page 342) In some villages eg those in North Bihar, the scale used is made of an ordinary wooden heam with the weighing pans hung hy means of strong ropes at its two ends A hole is hored in the centre of the heam through which a string is passed and this acts as a fulcrum Sometimes there may be more than one hole in the heam so that the position of the fulcrum can be changed if it can be done without heing noticed by the aggrieved party The string in the fulcrum is cometimes made to fit so tight and stiff that the quautity weighed can be easily manipulated account of multiplicity of weights and the use of any kind of scale, the grower is in maux cases at the mercy of the weighman who more often than not favours the buyer at he cost of grover

In Burna the scales used in villages are the ordinary wooden beam scales which the growers or sellers can check against the scales which they believ to be accurate in their own bouses or in the shops of local dealers. In markets like Rangoon platform balances are more commonly used

(3) STANDARDISATION

The chaotic state of the systems of weretts and measure ad pixed in different parts of the country has already been described in the other reports of the marketing series. It also stands in the war of development of market intelligence service and trade. The ears ing conditions further provide a good's ope for exploiting the illustrate and the ignorant grower sellers, and there has been practically no effective organisation excepting possible lately in the Bombay Presidency to check the fraudulent practices by the intermediaries of manipulating weights and cales. Several municipal authorities and district boards in the country lave adopted the model by elaws framed by their local Governments to prescribe the use of standard framed by their local Governments to prescribe the use of standard framed by their local Governments to prescribe the use of standard framed by their local Governments to prescribe the use of standard framed by their local Governments to prescribe the use of standard framed by the practice effectively. Beside there has been no regular and effective inspection service outsade the Bombay I residency

The question of standardisation of weights and measures on an all India basis has engaged the attention of the Government of India for over a hundred years but so far no standard weights and

measures have been established for the whole country. The only statute of the Government of India on the subject appears to be the Act XXXI of 1871 which made the kilogramme of the metric system the standard seer of India. This Act however has remained a dead letter. Soon after the enactment of this statute the Government of India passed a resolution in 1875 stipulating that the Indian main of 40 seers (1 seer heing equal to 80 tolas) should be the standard in use on all gnaranteed and State Railways and in the collection of agricultural and price statistics. In 1913 a committee was set up to re-examine the question. The committee reported in 1914 recommending the adoption of the same standards which they called Indian Railways. Weights based on a main of 40 seers a see of 80 tolas and a tota being 180 grains equal to the weight of a rupe. Immediately afterwards however the War intervened and no action could be taken on the committee's report on an all India basis.

Since then it is only the Government of Bombay which have enacted a comprehensive legislation called the Bombay Weights and Measures Act of 1932 which has been applied to the whole of the Bombay Presidency from March 1936 According to the Bombay Act a loa convists of 180 grains 80 tolis making one seer The maund equals 40 seers and 3 maunds male a Bombay May Similarly standards have been prescribed for measures Weights and measures laboratories I are been set in to verify and check these weights and measures I have been prescribed for measures which these weights and measures the Act is administered by the Direct r of Industries assisted by an extensive inspection stiff from 19thout the province. It is bower understood that the old weights and measures which were being used before the introduction of the standards have not yet been wribdrawn and it is hiely that they are still being used in some places particularly in the remote turial areas. Similarly it is understood that both the pound and seer continue to be used so that merchants may use the pound weight for selling and seer weight for huying. An ordinary buyer believes that a seer is equivalent to 2 lb but it actually weighs 2 bot 100 to 100 to

Under the new constitution weights and measures is a provincial subject, but the establishment of standards of weight is central. The tola seer and mannd are the most widely used in the country the tola being commonly understood to be equivalent to the weight of a new rupee (180 grams Troy). The weights used on all the railways are the maund and seer each seer weights go on all the railways are the maund and seer each seer weights are tolas and a maund consisting of 40 seers. Since these weights are the ones mostly widely known it is suggested that the following standard weights should be adopted for India.—

 Weight of a rupee (180 grains Troy)
 = 1 Tola

 80 Tolas
 = 1 Seer

 40 Seers
 = 1 Maund

These standards would correspond to the standard weights adopted in Bombay and cause the least dislocation of the existing systems followed in the several areas Once these were standardised

local Governments could introduce in addition, such multiples or and multiples of these weights as might be desirable to fit in with other local weights in common use. It is also suggested that the Provincial and State Governments might give some attention to the question of the seales emploied for whole-sle and retail trade. The Government of India have decided to introduce central legisla tion for standardising weights, and Provincial Governments will then be in a better position to take active steps to put the standard weights into operation.

B -Research

(1) CIGARETTE TOBACCO

ludia is one of the largest tobacco producing countries of the world, but by far the larger part of her production is suited to the needs of the local market. The quality in demand for local consumption his not been suitable for export to and consumption in European markets where there has been a rising demand for the eigerretic last, largely of the fine currently by With a view to increase the foreign trade of India in this commodity and improve the common position of the tobacco grower, it is natural that attention of tobactor research institutions in the country has been largely concentrated on the production of eigerette tobacco suitable for export and manufacture of cigarettes within the country.

The earliest (1920 25) attempts to produce eigerette leaf on a commercial code were made in the Guntur district by the Indian Leaf Tobrico Development Company, Limited, which introduced several exotic varieths from the United States of America among which the most successful was the Adock variety. This tobacco was cured on racks but the colour obtained fell short of that which is desirable in a good eigerette leaf. Fine curing experiments were conducted at Pusa in Bihar during 1922 27, which established the superiority of this process in getting a bright lemon yellow colour from the Adocck variety.

In 1924, at Pusa, Adoock was crossed with Pusa Type 28, which was considered to be the best of the Pusa types for eigerette mann facture and one of the 52 types originally isolated by the Howards A large number of hybrids were raised from this cross and of these, two numbers, H 142 and H 177 has proved to be beavier in prediction and equal in quality to Adoork. Under conditions prevailing at Pusa however, any eigerette tobacco grown in the area gives a distinct earthy flavour.

At the Nadiad tobacco farm in the Charotar area, experiments are being conducted in hybridisation and caring eigerette tobacco. The local Gardin which is a high yielding variety with deficiency in quality, from the point of view of eigerette manufacture was crossed with Adock and one of the hybrids resulting from this cross is reported to be suitable for the manufacture of lower quality eigerettes. At the agricultural research station at Quatur experiments are being conducted on eigeratte tobacco with regard to bybridisation, selection, rotation and the effect of environmental factors on quality and flavour.

For the on twenty years, the Indian Leaf Tobacco Development (empany has been carrying on experimental research wor on agaretic leaf and advising growers in regard to evop rotanos, a treation correct use of fertilisers, etc., particularly in the fundar area.

Since 19.6 the Imperial Council of Agricultural Research has aben up a self are for co-ordinated research in the production of Court's objection in operation with the Imperial Agricultural Resear | Institute and nine provinces and States. The school models is a self-council to the self

Determination of areas untable for the production of

Operated tobacco and

Detailed manuful, curing chemical and breeding ex fermions and control of leaf curl disease at the central Tobace Research Station at Guntur under the control of the Imperial Agricultural Research Institute

Each cooperating province and state has been provided with two fine-current barns (in a few cases with only one) and the curred leaf obtained is believed to tests be experts. The work at the on the curred leaf conditions the state of the effect of different manufers and and cultural conditions, chemical analysis of the leaf at control of leaf curred conditions, chemical analysis of the leaf at the control of leaf curl different and ageng, and the possibilities of the observations of the control of leaf curl different barns on the variations in the variation of the control of leaf curl different bands of soil. The scheme is of the carbon state, of experimentation.

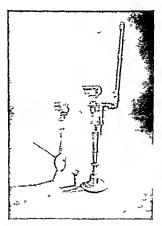
Of all the azmethral crops the raising of a successful tobacco crop particularly for exparete manufacture probably requires the large-amount of styll knowledge and experience, and there is a present no efficial source in India from which the producers can obtain expert address and guidance with recard to the production and manufacture of exparete tobacco Considering that during the part twicks years the most dominant problem in the tobacco trade of the country is the production of leaf of a quality approaching that which is used in the manufacture of the popular brand, of Virginan experted here as well as abroad, it considered desirable that the service of such an expert officer is considered desirable to the toba co producers. The Imperial Council of Agricultural Research has now them up the purpose of the order of advanced invariant, curing and marketing.

It may further be suggested that in order to ensure and expand a marrier at home and abroad, any scheme for the expansion of the area under curarette tobacco should be linked in with a system of standardised grades, so that exarette manufacturers in India and the leaf importing countries overseas, much be certain of a regular supply of a uniform quality. As a preliminary step to this, arrancements may have to be made by the Provincial and State Departments of Azireulture to educate the grower to grow only that





Plates showing the types and number of colonies of micro-organisms which grew on toloaceo extract agar when inoculated with $J_{cd}f_{rd}$ and $M_{closuppelayam}$ toloaceos in a dilution of 1 in 200.



Apparatus for Choking J 2 tobacco

(The one on the left is an ordinary 1 1 1 used by the poorer people. The tobaccous print in the bord on the top and the smaler passes farough water contained in the occoum, shell at the bordon. The 1-yeld on the right is more clab rate and expensive used by middle and upper class smaler. The small of sect between the two 4 left is the Chilary an earther 1 pr in-d for smallers are tobacco.

variety for which his area is found most smitable. The results of research should indicate the variety or varieties which would be most suited for different areas. It might then be neerssary to control the purity of the variety through the distribution of seed and exercise control over the quality of the erop through advisory and propoganda work and growers' associations and by smitable legislation where necessary, designed to foster the establishment of one variety area.

(2) CIGAR AND CHEROOT TOBACCO

India once possessed a flourishing eigar industry, and Indian eigars in general, have probably been regarded as a cheap, medium, quality smoke. On account of the general decline in the popularity of eigars in favour of the eigarette, however, the importance of the industry has now considerably declined.

Some investigations have been earried out by the Bengal Department of Agriculture at Rangpiar (North Bengal) and several imported types were tried for the production of curar wrappers and fillers. Of these Sumatra, Pennsylvania and Manilla varieties have been found successful.

In countries where the production of fine cigar leaf is success ful cultivation is done on large plantations which are very carafulty worked and supervised, even individual plants being attended to At present this type of cultivation appears to be beyond the scope of Indian tobace growers. The local demand for cigars and cheroots is adequately met with by the manufacturer, established in Madras and Burma and it would probably continue to be advantageous to import the fine quality Sunadia wrapper for the manufacture of superior cigars for some time to come. Considering that the demand for cigars and cheroots is on the decline within the country and abroad it appears that research in the production of cigar leaf offers a less promising field than in the production of cigars leaf offers a less promising field than in the production of cigars leaf offers a less promising field than in the

(3) INDIGENOUS TYPES OF TORACCO

The main problem of indigenous tobaccos used for bidi hosdan, chewing and snuff appears to be improvement in vield and quality to work on these lines is being done for any of these types of tobacco except at the Vadiad tobacco farm in the Charotar area. Extensive work was done in selection from the local varieties of bidi tobacco and three selections G 6 (from Gundin) P 45 (from Piliu) and P 28 (also from Piliu) which have been visited are superior in vield if not in quality G 6 has gained considerable popularity since it gives a higher yield can withstand frost and involves less labour in its cultivation. It is reported that about fourth fifths of the area under bidi tobacco in Kaira District of Bombay is now under the Gandiu and Piliu selections.

It is suggested that similar research might be indertaken in other areas particularly in Southern Madras Aipani area North Bihar and North Benaal

As already stated in the chapters on Snpply and Grading and Standardisation, considerable quantities of Jaffna chewing tobacco are annally imported from Ceylon to Travancore. In spite of its very high price, this tobacco has particular attraction for consumers in the Travancore and Cochin areas because of its peculiar taste, though, in physical character it appears to be similar to the Menam palayam tobacco produced in the Combatore district A micro-biological analysis of these two varieties indicates two distinct formations of colonies of organisms (see plate facing page 380) and it is possible that the peculiar taste possessed by the Juffac tobacco is the result of the differences in the micro-organisms present in the cured leaf of these two varieties. It is therefore for consideration if the tast of Mecampalayam tobacco cannot be turned into that of Juffac by transferring the organisms present in the cured leaf of Juffac by transferring the organisms present in the cured leaf of Juffac to that of Weenampalayam.

C -Seed

Except in the case of Virginia eigarette tobacco there is no dependable source from where the growers can obtain their seed supplies Even in the ease of Virginia the only reliable source is the Indian Leaf Tobacco Development Company Limited operating in the Guntur area. The reputation of this area for a uniform type is almost entirely due to the distribution of seeds and seedlings by this company which maintains at Chirala seedbeds covering about 7: seres climost entirel um ler the Hirri in Sec ial variety The seedlings raised from this are generally given by he commany to growers who enter into contract with the company for the delivery of the cured leaf Any excess of seeds and seedlings is supplied by the ampairs to other parties demanding them. It is understood that iresh seed of Virginia imported from the United States America deteriorates under conditions prevailing in India and that the company has to import fresh supplies of seed every third or fourth year The problems of acclimatising the seed of Virginia tobacco under Indian conditions are therefore extremely important, and it is suggested that experiments might be undertal en in the principal cigarette tobacco producing areas 112, Guntur, Mysore and Saharanpur Bulk of the cigarette tobacco growers either raise their own seeds or obtain seeds and seedlings either from their neighbours or the local seed suppliers. Due to natural cross fertili sation and the fact that majority of the growers and local village seed suppliers do not know the scientific methods of raising tobacco seeds the seed supplies available to the hulk of the growers are far from reliable During the course of this survey several exporters and growers from the Guntur area expressed that the quality of the Guntur erop has generally deteriorated during the past five years on account of the use of faulty seeds and seedlings by the growers and that the question of supply of reliable seeds is of utmost import ance to keep up and improve the reputation of Guntur area for the flue-cured leaf. One of the stems of work taken up by the Indian Tobacco Association is the supply of reliable seeds and seedlings to Virginia tobacco growers about which enquiries are being made

Almost the only variety of Virginia eigarette leaf grown in India is the Harrison's Special introduced by the Indian Leaf Tobacco Development Company by the importation of seed from America The word 'Virginian' describes a type and does not mean tobacco leaf grown in Virginia alone It has no place in the American system of tobacco classification where all cigarette leaf is classed as fine cured The bulk of the flue cured leaf is grown in Carolina and Georgia, smaller quantities being produced in Virginia, Florida, Alahama and Mississippi Enquiries made this year (1938) by the Central Marketing Staff from some of the seed suppliers of the Virginia Bright Belt of the United States, show that the Harrison's Special variety is not at all grown in America to any appreciable extent and that Gold Dollar, Bonanza, Virginia Bright Leaf and Yellon Mammoth are the most common varieties Other varieties of cigarette leaf grown to a smaller extent Jamaica Wrapper, Cash and White Stem In fact it appears to be difficult even to get the seed of Harrison's Special which is reported by some of the American seed suppliers as too coarse to produce a fine type of cigarette leaf under American conditions One of the Extension Tobacco Specialists of the United States Depart ment of Agriculture who has had some experience of Indian condi tions reports that the Bonanza variety is the nearest approach to the Harrison's Special and that it will be difficult to distinguish these two varieties under field conditions. He further says that Gold Dollar is by far the most popular variety grown in America as it cures more easily than other varieties and produces leaf of a very fine texture and quality, and that it might also suit Indian conditions

It will be therefore desirable to try, under conditions prevail ing in the different cigarette tobacco producing areas of India, at least the seed of the Bonanza and Gold Dellar varieties

Almost all the growers of indigenous varieties of tobacco produce their own seed for raising seedlings. They leave some plants untopped and the pods when mature are collected, dried and stored in Bombay, the usual practice is to allow the ration crop to mature and bear seed. Owing to reasons such as heavy showers just after sowing seed, insect attack, disease, etc, a grower may fall short of seedlings at the time of planting. In such a case be generally procures seedlings from neighbours, friends or relations, usually free Generally the growers are not very particular about the selection of plants for raising seed and this is possibly due to their belief that the quality of the leaf depends entirely on the nature of soil and collivation.

It appears that only in the Charotar area, extensive efforts were made by the Bombay Department of Agriculture to distribute the seeds of improved selections G 6 P 45 and P 28 which are reported to cover about four fifths of the bods tobacco area in Kaira district. In Bihar attempts were made to distribute Virginia tobacco seeds of H 142 H 177, Adoct. and Harrison's Special, but without any appreciable results

D -Trade associations

Mention has already been made of the market operators' associations in Nipani Sangh and Jayasingpur These appear to be the only three places in the whole of India and Burma where there exist trade associations organised by merchants in the tobacco trade. The Merchants' League established in 1919 at Nipan ha fived the inits of sale, rates of commission other miscellaneous charges and deductions in weight. Rates of discount for immediate payment and interest rates on overdue, are also fixed, while the rules of the League stepulate that no member of the League suppulate that no member of the League. The Merchants' Association established in 1933 at Jayangpur also works on similar lines as that at Nipan The rules made by the Sangli Chamber of Commerce stipulate them of opening and closing of the market place, the order and units of sales, conditions of sale, commission and other charges, deduction in weight and rates of discount and interest charges, deductions in weight and rates of discount and interest charges,

The Indian Tobacco Association at Guntur to which a refer ence has been made in the chapter on Classification, Grading and Standardisation, concerns itself manily with the introduction of standard grades for cigarette leaf, and the issue of periodical bulletins and leaflets grung information on market intelligence,

cultivation, curing and grading

E -Marketing of tobacco in other countries

(1) PRODUCING COUNTRIES (a) United States of America -Ahout one third of the total quantity of unmanufactured tohaeco which enters into national trade is supplied by the United States of America United States trade in unmanufactured tobacco is highly organised Statutory standard grades for all types of tohacco are prescribed All warehouses and warehousemen are licensed and controlled under Regulations for Warehousemen Storing Tobacco' made by the Secretary of Agriculture under authority of the United States Warehouse Act A tohacco inspection, market news and demonstra tion service has been established. The inspection service under takes inspection and certification of the grade on tobacco, before sale at auction markets Packed tobacco is also inspected and the grade certified upon application by interested parties. Prior to 1936 a small fee was charged for this service which is now given free to growers During the years 1931 to 1935 108 to 186 million lh of farmers tobacco were sold annually under standard certified grades at auction markets. Under the demonstration ser vice the tobacco growers are acquainted with the objects of the inspection and market news services and how these services can be best used. The market news service consists of issuing daily and weekly price reports prepared from the price data secured at the

anction warehouses. The marketing method most extensively followed is the auction uarehouse system which prevails throughout the flue cured. Burley, dark air cured and fire cured areas. Before hiringing the tobact to the auction warehouse market, the farmers sort the leaf on the farm according to quality and the it mito hands containing 5 to 20 leaves. On receipt at the warehouse the leaf is arranged for sale on flat baskets placed in rows on the floors of the auction sales frooms. Each lot or hasket, is then weighed and a warehouse taket.

is placed on the lot The ticket shows the name of the sellers and the number of pounds of tobacco in the lot and may give other information for the purpose of identification Space is provided on the ticket for the name of the buyer, the grade symbol of the buyer and the price at which the tobacco is sold. It also has space in the upper right hand corner for the United States federal grades in markets where the Government inspection service exists diately before the auction commences, an official inspector carefully examines the different lots and writes on the ticket in the space pro vided, the federal grade that correctly describes the tobacco in the lot and signs his initial When the auction starts on each lot, the grade of the lot is announced for the information of all parties con eerned. The auctioneer, followed by sales recording clerks, passes rapidly from one lot to another The huyers on either side of the row draw out hands of tohacco and inspect them for hidding Sales are made at a rapid speed, usually about 300 lots per hour although sales of 350 to 400 lots per hour are not uncommon Unless the grower refuses to accept the price offered, which he has the privilege of doing, the warehouse renders him the account of the tobacco sold and gives him a cheque for the price realised after deducting market expenses like weighing, warehousing, sampling and selling commission So efficiently are the accounting and dis bursing operations organised that the grower may if he desires obtain payment almost immediately after sale. The requirements of an auction warehouse are ample floor space on a single floor and uniformity of lighting

Another method of marketing is the closed bid auction system followed largely in the case of Maryland tohacco. Under this method the tobacco is first packed in hogsheads on the farms and then consigned to a hoper or warehouse. Samples are taken from hogsheads, sealed and displayed he the broker or the commission merchant sealed and sealed bids on the hasis of the samples displayed. All the broker or the commission merchant series are opened at the close of the day and the highest budder the hids are opened at the close of the day and the highest budder the highest budder the solicity of the solicity

The method of selling on the form is predominant in the eigar tobacco producing areas. Travelling buyers either operating as independent dealers or representing tobacco manufacturers visit the tobacco growers and effect sales. Purchases may be made by entering into contracts with the growers at some time during the entering into contracts with the growers at some time during the entering into contracts with the growers at some time during the entering into contracts with the growers at some time during the entering some or by the product of the tobacco is harvested and the cured. Such transactions may be made at a fast price for all the cured. Such transactions may be made at a fast price for the cured such transactions may be made at a fast price for the product of the cured such price for the product of the cured such products.

for tobacco of lower quality

Various attempts have been made in Producers

Pools' for co operative safe by tobacco producers

The under the producers of the producers of the control of the producers of the producer of the producers of the producer of the producers of the producer of the producers of

a future date when marketing conditions become more favourable There appear to be only five co operative societies of importance at present in operation The Northern Wisconsin Co operative Tobacco Pool organised in 1322 and operating in a eigar leaf producing area has a little over 1000 members. This organisation provides for iederal grading of all tobacco received from its member growers through co operation with the United States Department of Agricul ture and Wisconsin Department of Farms and Markets All packing and warehousing services are rendered by the association which also arranges for the sale of tohaceo for its members Producers are paid by pooling the receipts from the sale of each grade for the entire crop each grower receiving the same price for tobacco of a given quality produced within the year Large stocks are held by the association, sometimes for as long as two or three years and a financing plan has been developed whereby cash advances are given to the producers against stocks of tobacco. Three other co operative marketing associations operate in Lentucky and Tennessee, mostly dealing with dark fired tobaccos The Maryland Tobacco Growers' Association organised in 1907 and having a membership of more than 5 000 growers functions substantially as co operative brokerage agency on the Baltimore market Some of these co operative asso ciations have helped to maintain prices in the open competitive markets but where they have resulted in holding up supplies for a prolonged period they have either lailed or only achieved partial success. Where serious failures have resulted they have usually been due to several causes of which three are important to (s) all tarmers not joining the movement the buyers were able to satisfy much or their requirements outside the co operative pool so that the pool was left with large nusold stocks at the end of the season (11) no agreement could be reached among the growers to limit cultivation sufficiently for the following crop to prevent competition between the new crop and the stock left over from the previous year and at times stocks had to be carried by the pools for a period of even three years and (111) a point came at which banks declined to finance the stock with the result that the co operative pools were forced to sell at the best prices obtainable

The important tobacco markets particularly in Virginia have organised tobacco boards of trade for the purposes of encourag ing promoting and regulating sales and trade in leaf tobacco members of this board of trade are usually the operators of the auction warehouses and the buyers on the market These tobacco boards appoint their own officers from among their members who are empowered to enforce proper observance of all rules regulations and hye laws and to punish offenders by such fines or penalties as the majority of members may determine to impose These boards cus tomarily regulate the sales rapidity of sales the time at which the sales are to start and stop the time when payment for tobacco shall be made by huyers the inspection and weighing of trucks of tobacco and the filling in of weekly and monthly reports giving the number of pounds of tobacco sold by each warehouse and the average price received They also impose fines on the members found guilty of breaking the rules probabit the parchase of tobacco by any one not a

member of the board of trade and assist planters in settling any disputes which may arise between them and the members of the board of trade The tohacco boards of trade have rendered valuable ser vice by hringing the huyers and warehousemen closer together respect of sales, settling of disputes and building up of markets, though the tohacco growers have not yet been represented on them

Between 1927 and 1930, the production of tohacco in the United States increased by over 36 per cent without a corresponding rise in the domestic and foreign demand In consequence there was a continuous decline in price and rise in stocks. These difficulties were, however, not confined to tobacco growers alone and with a view to help farmers the Agricultural Adjustment Act was passed in May 1933 The main object of this Aet was to secure a rise in prices of farm products and thus restore the purebasing power of the farmer So far as tobacco was concerned, a programme was drawn up under the provision of the Act to obtain reduction in accumulated stocks hy restricting current and future crops The full plan involved definite contracts with growers and the offer of certain rental and other payments to them in consideration of their reducing production in 1934 and 1935 Funds for this purpose were provided by processing tax " imposed with effect from 1st October 1933 at the rate of 42 cents per lb (farm sales weight) Prices were not slow to respond to the action taken In 1932 the averaga farm prica was 105 cents per lb, which in 1934 rose to 213 cents per lb In Jann ary 1936, however, the Supreme Court declared the processing taxes and contracts with growers as unconstitutional Immediately after this ruling the Soil Conservation Act was amended to assist the farmers and to give them practically the same privileges as were intended to be given under the Agricultural Adjustment Act ments to growers under the soil conservation programmes were smaller than under the Agricultural Adjustment Act

The new Agricultural Adjustment Act of 1938 provides for continuing the soil conservation programmes and makes provisions to stabilise supplies of five major commodities cotton, wheat corn tobacco and rice The act aims at certain supply levels for the five commodities These levels are established in fixed percentages above normal supply, and in most cases are the snm of normal domestic and export requirements due arrangements being made for earry overs As a result of experience gained since 1933 when the first Agricultural Adjustment Act was passed attempts are now heing made to maintain an economic halance hetween production consump tion and demand under the provisions of the new Agricultural

Adjustment Act and soil conservation programmes

(b) Canada -Bulk of the commercial production of tohacco in Canada is located in Ontario and Quebec The most common method of marketing is what is known as the harn bnying " system. In addition a small portion of the crop is sold after being graded and packed Under the barn hnying system the huyers maintain a staff of fields. of fieldmen who inspect the crop in the field while curing and after being mill who inspect the crop in the field while curing and after heing piled. When the market opens the huyer visits the farm and offers are offers an average price per pound for the crop If the offer is accept-LIICAR

able, the grower signs a contract with the buyer and awaits instructions as to stripping and delivery of the crop. Payment is made on the bass of weight when delivered at the packing bonse. This barning region is considered by some as insastistactory, yet both the producers and domestic buyers appear loath to absording it. Most of the dark tobaccos are grown under contract with the buyers. In Quebec, part of the crop is marketed through cooperative associal

Mark-ting of flue-cured leaf in Ontario is under the control of a mastering association, the membership of which is made up of producers and hopers. Each year, before huying commences, all crops are appraised as to their relative value. A joint committee upon which producers and hippers have equal representation then negotiates a minimum average price for the entire crop, and fixes a differ the commencement of buying operations. Actual purchases of individual crops are not controlled except that the buying companies, all of which are hierarch by the association, must purchase only from hierarch grows unless amborised by the association to do otherwise. A measure of acreage control is associated with the scheme. The Burley crop is marketed under a similar plan

(c) Southern Rhodesia - The system of marketing adopted in Southern Rhodesia has changed from time to time and the methods have included sale by anction private treaty, sealed tender and contract In 1910, the anction system was introduced because sales by private treaty had given disappointing results. Due to a disagreement between sellers and buyers anction sales were subse quently discontinued in 1914 After the failure of the auction system the Rhodesian Tobacco Cooperative Society was registered to undertake the warehonsing and marketing of tobacco 1918 this society marketed tobacco under contract with two leading manufacturing firms in the Union of South Africa. In 1923 the society was placed in voluntary liquidation and its assets and liabl lities were taken over by the Rhodesian Tobacco Warehouse and Export Co, Ltd The new company was composed of members of the old society and conducted its business more or less on the same lines In 1926 this company exported a fairly large quantity tobacco to the United Kingdom and in 1927 allowed their own con tract with the South African buyers to lapse. It instituted sales locally by sealed tender and later by private treaty. In 1928 the anction system was reintroduced but discontinued almost immediately The method of marketing of Southern Rhodesian Tobacco into the Union of South Africa was subject to alterations in 1930 and the latter country imposed an import duty on tobacco in excess of a quota of 2 million ih of Virginian and 4 million ib of Turkish tobacco which was allowed duty free The Southern Rhodesian Tobacco Board was formed to administer this quota

The Tobacco Marketing Act, 1936 of Southern Rhodesia which has heen recently put independent, vests the Minister of Agrical ture and Lands with extensive powers for regulate the sale and export of tobacco. The Unister's powers are exercised by a board which consists of six members representing the public service, the growers

and the huyers All buyers of tobacco are required to get heenses from the board which are valid for one year. The hoard also grants one year heenses to such premises as it may deem suitable for the sale of tobacco by auction. The board may from time to time fix a suffi for weighing, selling and commission charges. No tobacco is permitted to be sold or hartered within the colony in any other manner than by auction on heensed auction floors, nor can any tobacco which is not tobacco as defined for the purposes of the Act be offered for sale on any heensed auction floor except with the permission of the board. Besides, no person is allowed to use for the purposes of manufacture or for sale any tohacco produced in Southern Rhodesia unless purchased on hieensed auction floors.

Every year, each registered grower was to be allowed his sales quota in the tobacco requirements of the local and protected markets for the season. No person was to he allowed to export any tobacco from the colory except under the permission issued under the authority of the Minister. The board has powers with the approval of the Minister to require growers, licensed auction floor owners and buyers, to snpply such information as it may require regarding their operations. The auction system proved acceptable but the allocation to midraduals of the quantity which they might produce and might sell gave rise to dissastisfaction. An amending act of 1937 abolished sell gave rise to dissastisfaction for the auction specific produce and the same all restrictions on the quantity of tobacco the grower might sell

- (d) Union of South Africa In South Africa, growers are organisation of There is an algebrase element of compulsion in the South African co operative movement When three-fourths of the producers in any area producing al together at least three fourths of any specified agricultural produce, are members of a co-operative society, then that society can, in accordance with the Co operative Society Act, move the Government to order, that all producers in that area, whether members of society or not, must deliver their crop to and sell through the society The co-operative societies generally own warehouses where tobacco is received, graded and haled The hales are handled indivi dually and the owners of respective bales are debited with the cost of handling Tohacco is sold according to grades All the co-operative societies are associated in the Central Co-operative Tobacco Company which regulates prices at which leaf may be sold to local manufac turers and controls selling of the whole of the surplus stocks of the members, available for export. Thus a practice of centralised practice of centralised practice. selling, combined with that of giving the farmer at the time of deli very of his crop, an advance based on its anticipated market value, has been established An Act of 1935 set up a Control Board as the man administrative body to earry out any regulations that might be laid down by the Minister of Agriculture, which may include grading and standardisation, prohibition of manifacture or sale of tobacco below a specified quality and other regulations considered to prove beneficial to the industry generally
 - (c) Ayasaland—Following the example of Southern Rhodesia, the Nyasaland Protectorate has now adopted a system of state control for the marketing of tobacco under the Tobacco Marketing

Ordinance enacted in December 1937. For the present, this Ordinance applies only to flue eured tobace. Provision has been made to set up a Tobacco Control Board consisting of officials and non officials elected from among the growers buyers and exporters. The Board is empowered to register growers heense buyers and auction floors control the procedure on the auction floors, fix the maximum charges for weighing and selling on the auction floors and even to determine the minimum selling prices. The Board has also got power to establish and control a tobacco pool to which every grower is to contribute all his tobacco that is not required for the local market or for export under permit or is not sold on an auction floor.

No grower is allowed to produce flue cured tobacco unless registered with the Board in accordance with the provisions of Tobacco Uarketing Ordinance Flue cured tobacco and any other type to which the Ordin ince may be applied by notification, can be only sold by auction on a licensed auction floor. No person is allowed to par chase tobacco unless duly licensed. Growers are permitted to retain a certain percentage of produce for home consumption while the export is restricted by quota certificates and export permits.

(f) Japan - A tobacco monopoli law is in operation in Japan In July 1904 a revised tobacco law was enacted which extended the monopoly control over manufacture and sales Privately owned factories were taken over by the Government, additional factories constructed and the entire industry managed by the monopoly Sales by the monopoly were made to licensed wholesalers who in turn sold to licensed retailers. In 1931 the wholesale system was abolished and the monopoly established its own marketing organisation delivering tobacco directly from the monopoly licensed retailers. At present the monopoly has complete control over all aspects of the tobacco industry from the time the seeds are planted until the finished goods reach the consumers. The cultura tion of tobacco is permitted only to licensed growers and controlled hy the monopoly The monopoly gnarantees a per acre return on tobacco for each grower All operations in the cultivation of tobacco are regulated and the methods of barvesting and curing are laid down After curing the tobacco leaf must be carefully graded and tied into hands in a prescribed manner even the material that may be used for wrapping and twing the hundles is prescribed Tobacco inspectors are employed to see that all the monopoly rules and rem lations are carried out The farmers' crop can only be sold to the monopoly If any grower fails to follow the specified instruction his license is hable to be cancelled If his tobacco leaf is not graded and packed according to the monopoly regulations it is not purchased until it is properly graded and packed. After the tobacco leaf reaches the monopoly it remains in its possession until sold in the form of retail tobacco products or exported as leaf Re-drying storing manufacture sale to retailers and export are all carried out by the monopoly

Japanese tobacco monopoly has no purchasing organisation in India and prefers to leave the exports of Indian tobacco to Japan to commercial interests Consequently the monopoly has no representative to check consignments before despatch to Japan purchases are made in Japan and not in India, and consequently, the exporter from India has every chance of getting his consign ment rejected and returned to India, though such occasions are extremely few Before ascertaining the annual requirements foreign tobacco the monopoly estimates the production within the country and related territories and then submits its own estimates of requirements. The funds required are afterwards officially sanctioned and the monopoly is then in a position to notify requirements by about the end of September every year explained in Chapter X, the country (Natu) eigarette tohacco exported from India to Japan becomes ready for the market in April and May so that the exporters from Guntur (Madras) have to purchase leaf from the growers during these months in the bope of getting orders in September and October which is a matter of chance it is apparent that it is exceedingly difficult to depend on the Japanese demand for the extension of cultivation of country eigarette tobacco in India In fact, the area under this type of tobacco is largely declining in preference to the flue cured eigarette tobacco, due to the uncertainty of the Japanese demands but more particularly owing to the better prices realized for the Virginia leaf

(2) CONSUMING COUNTRIES.

The strongest current of international export trade in unmanufactured tobacco is towards Europe and hence the countries in Europe are the most important consumers of tohacco. From the noint of view of control over the tohacco industry the European countries may be divided into three classes (a) countries where all countries where all countries where only some phases of the industry are controlled countries where only some phases of the industry are controlled through "cartles", Government supervision or other regulatory measures, and (iii) non monopoly countries who levy import duties and expose view.

The non monopoly countries are the United Kingdom Nether lands, Finland, Norway, Denmark, Greece, Switzerland and and Spelium in Germany, Portugal and the Baltic States there are Belgium in Germany, Portugal and the Baltic States there are level to Government or other regulations of monopolistic nature jected to Government or other regulations of monopolistic nature, like monopoly countries are France Italy Sweden Spain Anstria, The monopolist Poland Romania Bulgaria Yucgsland, Rungary, Czechoslovalia Poland Romania Bulgaria Yucgsland Surment monopolies except in Spain and Sweden where monopolies exment monopolies except in Spain and Sweden where monopolies arment monopolies except in Spain and Sweden where monopolies ditions. The monopoly determines the area to be planted and the ditions. The monopoly determines the area to be planted and the Altions. The monopoly determines the area to be planted and the Sweden where monopolies excited where the state monopolies excited the state of the state of the state of the monopolies and any Generally the factories are owned by Government usually burs the whole crop and exports the surplus the Government usually burs the whole crop and exports the surplus the Government state of the manufactured products are sold by retailers at prices fixed by the State

(o) \{\text{nied} Kingdom.\top United Kingdom is the world's leaf so uple importer of unmanufactured tobacco which is imported in two wars (i) between 70 to 80 per cent of the imported leaf is purchased in the country of production by one of the world's largest tobacco combines the Imperial Tobacco Co (of Great Britan and Ireland), Ltd on behalf of its constituents, and (u) the remainder of the imports passes through the hands of merchants hrokers and dealers before reaching the manufacturer

The Imperial Tobacco Co (of Great Britain and Ireland) holds dominant position controlling about three fourths to four fifths of the tobacco industry in Britain This company was formed in 1901 to resist an attempt then made on Britain's tobacco industry by a powerful association of American manufacturers. It took over the business of several firms from time to time and now controls the activities of over a dozen and a half firms. The constituent firms retain their entities within the combination but in the matter of The company's purchase of leaf the company acts as a single unit activities now embrace all the branches of the industry such as supply of seed and seedlings having and grading the leaf accordance with the requirements of constituent firms, re-diying packing transport warehousing manufacture and distribution to wholesalers and retailers The only branches not yet covered by the company are actual growing of tobacco and selling to consumers The company has got its own factories reconditioning plants and warehouses in various countries including India

The manufacturing firms who have not joined the Imperial Pohacco Co purchase their supplies for the most part in the United kingdom On arrival in the United Kingdom the tohacco pack ages are removed from the ships side to the bonded warehouse under Customs supervision and it is usual to have the weighed there as soon as possible after receipt The Customs regula tions require that all importations of tobacco should be weighed net within a specified period after the date of receipt in the honded ware-The Customs officials are very particular about the weight as import duty is collected on the basis of net weight of tobacco 4 lh sample is taken from each package hogshead or bale by experi enced warehouse officials at the time of inspection and weighing and all sales are conducted on the basis of these samples Sale hy inspec tion and sample is therefore the rule and no husiness is conducted on the basis of standard description of type and quality appears to be satisfied with this method the general view being that requirements of manufacturers vary to such an extent as to make it necessars for each manufacturer to see the actual sample before buy ing It is however of utmost importance that all leaf in a package should conform to the sample and be as uniform as possible in the consignment offered for sale. It is in this respect that the imported from America and also recently from Canada and Rhodesta has succeeded in establishme a good remitation amone manufac turers It is also in this respect that complaints about Indian tobacco are most common and in consequence the general price level Indian tobaccos in the English market has been up to now lower

than that of tohacco imported from other countries. The main defect with the Indian leaf bitherto has been that unlike other countries such as United States of America Canada and Rhodesia there were no standard grades for Indian tohaccos and the quality of consign nent offered for sale in the English market was so uncertain that the interest of the state of the sale was a superfaint that the lawest gamst the risk of had leaf being mixed in the package. The himself against the risk of had leaf being mixed in the package. The special gamst the risk of had leaf being mixed in the package and if the standard grades are more fully adopted there is no reason with Indian leaf should not win the confidence of British manufacturers. Buyers must bowever give some encouragement to sellers there is no sellers in the part of the British can be presented by purchasing on the hasis of the standard grades and hy quoting differential prices for the different grades instead of a flat rate as at present.

Large manufacturing interests in the United Kingdom obtain their supplies of Indian leaf chiefly from or through the Indian Leaf Tobacco Development Co. Ltd. India Most of the remaining portion of the Indian leaf as it reaches the United Kingdom market is shipped not by growers but by Indian exporters on consignment basis to be sold through London or Liverpool brokers and leaf merchants

All tobaccos are sold privately and the trade is not organised in the same way as for many other commodities. There are no recognised auction sales nor are there regular exchanges futures markets or standard forms of contract. The tobacco section of the london Chamber of Commerce does not control any selling organisation its main function bung to discuss matters of general interest the distent always etc. After the sale is effected a delivery order is like dintes laws etc. After the sale is effected a delivery order is makes his own arrangements for removing from the bonded ware makes his own arrangements for removing from the bonded ware house as and when he requires tobacco after the payment of import duty.

It is claimed that in the absence of a regular exchange or auction sales sale of goods immediately on arrival in the United Kingdom is not possible. To effect a sale therefore by private negotiations it takes some time which may range from a few weeks to even a year depending on the keenness of demand for the type of tobacco offered

for sale

(b) France—The tobacco industry in France is controlled by the controlled with the controlled wi

(c) Geniany—There are several Government restrictions and regulations though the tobacco and server in Germany is non-nally handled by private companies

Restrictions regarding packing and

warehousing and numerous taxation laws are reported to have greatly burdened the industry in recent years. Imports of leaf are governed by the new German import control laws. These laws allowed some latitude on the exchange requirements to buy tobacco leaf until September 1934 when tobacco was placed under a supervisory and control board and from the standpoint of importation it became a controlled commodity. Tobacco production is under Government regulation and eigerette and smoking tobacco industries are under cartel organisation for the past several years.

- (d) Italy A Government monopoly controls the production, warehousing manufacture and distribution of tobacco and tobacco products in Italy All the leaf tobacco is inspected and that not coming up to the standards is destroyed Cultivation of tobacco is permitted only to authorised growers.
- (s) Spain—The tobacco industry in Spain is controlled by a monopoly conceded since 1930 to a company which receives a stipu lated percentage of net profits for its services

FINAL INTER CHAPTER

SUMMARY OF CONCLUSIONS AND RECOMMENDATIONS

The annual value of the tobacco crop grown in India is somewhere about 18 or 20 erores of rupees If manu factured tobacco products are included the total value is probably nearer 40 or 50 crores The export trade alone is worth about 1 croie of rupees a year It will be appreciated, therefore, that a small percentage of im provement in price returns owing to better marketing would mean a considerable addition to the cash income of producers

Importance of quality_

The general treud of prices indicates that good quality tobaccos are rising in price but the price of second rate tobacco is steadily fuling Exports of good quality tobacco are increasing, those of low quality decreasing Imports of good quality engarette and chewing tobaccos 1emaul high and can only be displaced by the production of equally good quality in this country At every turn quality is the most outstanding factor of importance in the marketing of tobacco High quality not only re sults in higher prices for producers but ensures a wider market for Indian tobacco both in this country and abroad

Control of quality

So far as tobacco is concerned, ordinary competitive forces are not enough to ensure the production of the night quality In most cases the grower does not know to what use his tobacco will eventually be put

The respective quality factors of eigarette, cheroot, eigai, bidi hookah and chewing tobaccos are entirely distinct and are not known to the producer The problem of improving the quality of Indian tobacco cannot, therefore, be left to individual growers. If the general level of quality is to be raised and maintained it can only be done by organised direction and control

A step in this direction has been taken by the organisation of the Indian Tohaeco Association, which amongst other things seeks to educate the grower in the production of the right quality of cigarette leaf. Voluntary efforts of this kind, however, appear to have their initiations both in regard to the time taken to attain their objective and as regards the area covered. It is a question whether the provincial and State governments, particularly those covering the five main producing areas, should not take immediate steps to secure more direct control over the quality of tobacco produced in their area.

Improved seed and seedlings

Unless special precautions are taken to prevent eross fertilisation, the quality of any particular variety of tohacco deteriorates distinctly in a very short time. This is specially true of good quality Virginia eigarette lear, and in this case it is eustomary for fresh supplies of pure seed to be regularly imported from the United States of America.

Some attempt is being made by provincial and State Governments to propagate pure seed on Government farms for subsequent distribution to growers. Mysore State has probably heen most successful in these operations with regard to Virginia Cigarette tobacco but much more needs to be done by the appropriate departments to maintain the purity of the seed and to organize its distribution or the distribution of seedlings to all growers in their areas. This may be done either duret by the Agricultural Departments or through co-operative or trade associations, but the problem is urgent.

Better harvesting and curing methods.

Little progress has been made in recent years in the methods employed in preparing tohacco for the market. In spite of the number of flue-curing barns having multiplied considerably, the methods employed remain much the same although it would appear that the existing methods are susceptible of much improvement and the time of curing capable of being reduced considerably. The Imperial Council of Agricultural Research has established a number of experimental flue-curing barns throughout the country but much more needs to be done to speed up the practical application of the research work.

Apart from the fact that operators of curing barns are not fully informed as to the best technique of curing, many of them deliberately dry tobacco which they know is not suitable or fit for export or manufacturing purposes. Owners of redrying plants to some extent follow similar practices and process leaf which is altogether too low in quality.

It is a question whether steps should not be taken, amongst other things, to license curing barns and redrying plants and exercise some control over their operations, so as to ensure, for example, that they handle only leaf of approved types and of a quality suitable for the purpose for which it is intended.

Standard grades and methods of packing.

A great deal of harm is done to the reputation of Indian tobacco by putting on the market low quality produce which purports to be high grade. Defective leaf of poor quality is cured and packed mixed along with good quality leaf in such a way as to lead to competition and to disappointment on the part of buyers. Further, owing to the absence of any clearly defined grades of quality the comparison of price quotations becomes impossible and opens the way to malpractices

It seems essential, if the quality of Indian tobaccos is to be improved and maintained, that buyers and sellers, from the growers onwards, should be induced—or compelled—to adopt standard grades and methods of packing

So far as eighteet tobacco is concerned AGMARK grades for Vrigina and country leaf, both flue cured and sun cured, have been presented under the Agrieultural Produce (Grading and Mailing) Act, and the Indian Tobacco Association at Guntur have made themselves responsible for preparing seasonal standard samples of the various grades which are sent to the High Commissioner for India, London, for exhibition and distribution to the trade in England and other countries

Many of the exporters have adopted the AGMARK system of grading and marking their goods but more needs to be done to ensure the wider adoption and more general use of the prescribed grades. It would appear that the practical adoption of such grades might be ensured through a system of hecensing buyers and cuing bains already referred to, and by the exercise of some control over exports on the basis of standard grades, particularly so far as tobacco dispatched for sale on consignment abroad is concerned

Establishment of regulated markets and auction floors

From the report it is clear that there is an almost complete absence of tobacco markets having a central and convenient place where the growers can assemble their produce for sale as senstominy in the case say of cotton or wheat. The establishment of regulated markets at suitable centres, particularly in the five main tobacco producing areas is, therefore, a matter for consi-

deration by the authorities in those areas. In establishing such markets it would be desirable that the system of sale by open auction on the floor of the market should be introduced and that growers should be induced to sort out their leaf and offer their tobacco for sale on the basis of standard grades. This in itself would act as a strong force in educating growers to improve the quality of their leaf since they would be able to compare at once their prices with those obtained by other growers who bad adopted better niethods.

The establishment of regulated markets for tobacco would make it possible to introduce a proper market news service with regard to supplies and prices for the 1 formation of buyers and sellers. It would also be possible in such cases to reduce the amount of market charges which are at present scandalously high in some parts.

I proved price returns

At present the grower gets only about 40 per cent of the price reahsed for his Virginia eigarette leaf sold in the United Kingdom, and only about 30 or 35 per cent of the price secured for sun cured country tobacco. It is evident, therefore, that there is considerable room for improving the price returns to growers by reducing the costs of distribution. Attention may be drawn here to a few of the leading points at which some reduction in distribution costs is possible.

Storage losses for example on account of damage by unsects alone are estimated at about Rs 10 likks per annum. Some use has already been made in this country of cool storage in warehouses where the temperature and humidity can be controlled but much more needs to be done in this direction. The provision of suitable safe warehouse accommodation in the main producing areas

would make it possible for lenders to advance money on tobacco with safety. At present the joint stock banks do very little business of this kind, and the amount of business done by the shroffs is also very small. At least one successful attempt on co-operative lines has been made and the lesson is worthy of study by co-operative departments in other areas

The numerous and often meomprehensible systems of weights provide much scope for exploiting illiterate producers and stand in the way of the development of trade and market news service. Immediate action is, therefore, needed to adopt standard weights applicable to the whole country. The types of scales used in the wholesale and retail trade also require urgent attention.

The incidence of oction duties levied by certain mumicipalities is so heavy as to lead to the diversion of trade and higher costs of distribution. Market charges, particularly in kind, and in the form of weight deductions are, as a rule very high and their regulation is called for it is observed that the incidence of railway freight on raw and manufactured tobacco is relatively much higher than on the more valuable manufactured products, and it is for consideration whether some readjustment is not possible

Although the reasonal fluctuation in the pines of dose not appear to suffer in the same way as other crops from a depression at harvest time. The reverse seems to be the case since prices are at their best immediately after narvest. This is largely owing to the fact that the quality of the earlier pickings is better than that of the late. Buyers are anxious to take delivery as soon as possible after harvest and any proposal to introduce cooperative marketing on the part of the growers would have to take into account the danger of holding back the

erop unless at the same time very effective steps were taken to ensure that the storage was of such a character that the quality improved rather than deteriorated. In general, if the tobacco is properly stored there should, in fact, be an improvement rather than a deterioration of quality up to a period of about two years

In regard to prices generally the importance of stabilisation needs to be emphasised. In view of the fact that manufacturers of high quality products such as eigerettes and cigars, as a rule, hold about two years' stocks in hand their requirements are fairly regular and steady. Any large variation in the amount of supplies plessed on the market by growers, is therefore hable to result in very much reduced prices. The presence of a relatively small quantity of unsold tobacco floating round the market has a very depressing effect on prices as the season advances. It would appear desirable therefore that every inducement should be given to buyers to enter into contracts with growers at the time of planting in order to ensure a ready market for all the growers' produce at harvest time

Improved distribution of tobacco products

The use of certain constituents for flavouring some of the products is admissible, but hookah tobacco is commonly adulterated with and, earth, cotton waste and wither undesuable things. Chewing and bidi tobaccos are also subject to adulteration. Some steps are necessary to put a stop to the grosser forms of adulteration. It would not seem possible to deal with this entirely by defining standard grades for say, hookah and obewing tobaccos as the practice is much too widespread. The use of the Agricultural Produce (Grading and Marking). Act in connection with those products would, however, apparently be of value to manufacturers in so far as

many consumers of chewing tohacco, for example, pre fer to use pure leaf lather than the manufactured article of unknown composition The question of standardising and marking the better qualities is, therefore, a matter for consideration by the trade

Trade marks and other distinguishing marks are freely copied and the widespread misuse of trade marks is an abuse cilling for legal remedy

Apait from these defects in the trade it is apparently common for manufacturers to resort to all kinds of devices—some of a questionable nature—to induce distributors to stock and sell their particular products. There is room for the further expansion of the industrial manufacture of tobacco products in this country, but in order to ensure its development on sound lines it would seem desirable that there should be more consultation among manufacturers with a view to regulating the distribution of their products on a sound basis.

Certain provincial and State governments have adopted a system of charging heence fees from all tobacco traders and the majority of Indian States levy import and export duties, or have a system of auctioning out the rights to trade in tobacco and its products. Municipalities also in many cases levy heavy octroi duties on the trade. The effect of such restrictions and regulations has, in some cases, resulted in driving out the industry and it seems necessary to draw attention to the danger of such local restrictions which are designed solely for revenue purposes. If, however, a liceneing system for example, is combined with steps designed to control and improve the trade, particularly as regards quality, the system would appear to be advantageous to the industry lather than otherwise. This would he the case more especially if an equitable system of control on an all India basis could he arrived at

Need for closer study of local problems

Each of the main producing areas has its own plob lems distinct from those in other areas. In the Guntur district of Madias, for example, the main problem is to ensure the production of high grade flue cured Virginia algorithm of the United Kingdom, which has rapidly expanded in recent years. This calls for strict quality expanded in recent years. This calls for strict quality control and involves the organised distribution of pure reed and seedlings, the establishment of regulated markets (auction floors), the adoption of standard grades by producers and others the hierarchy of flue curing barns and redrying plants, and the fostering of organised voluntary efforts on the part of trade or co operative associations.

In Bengal one of the main problems arises out of the fact that the export trade to foreign countries in cigal and cheroot leaf has been steadily falling off and there appears, therefore, a need to divert production on to other more suitable types. The question of standard grading and marking of some of the well known types of Bengal cheroot and hoohah tobaccos seems also worth considering

In Bihai the demand for local leaf for eigarette purposes has been falling off and it is a question whether steps should not be taken to expand the market for Bihar chewing tobacco through systematic grading and marking chewing topicss might be assisted by the establishment of regulated markets

In Mysore, the State has made remarkable progress in expanding the area and improving the quality of local eigarette leaf, but much remains to be done and more effective control could probably be established through the licensing of flue curing barns In the Charotar and Nipam areas which concentrate largely on the production of bidi leaf, the establishment of regulated markets is called for and the possibility of grading and marking the better qualities of bidi mixtures requires investigation.

Improvement et efficial statistics

The two species of tobacco viz, Nicotiana Tabacum and Nicotiana. Rusti i are very di finet and the final product is put to entirely different u.c. but no attempt has so far been made to differentiate between the two species in official statistics. It is important that thus should be done particularly on account of the fact that the wold trade and the sixth of efficiency consists almost solely of Nicotiana Tabacum. Particulars regarding the production and supply of this type are therefore important not only for producers and others in this country but also for but ets abroad.

The two botanical species are capable of further sub-division into commercial type according to the purpose for which they are to be used viz, cigarette, cigar cheroot bid: chewing and hoof ah, and in regard to cigarette leaf a further sub-division of production estimates and forecasts is required into flue cured and sun cured Virginia and country (\(\lambda at u \)) respectively

Until the estimated production and supplies at elassified on the lines indicated and until prices are quoted on the basis of those particular types, official statistics will continue to have little or no commercial value

APPENDICES.

Area under tobacco in the principal countries of the world APPENDIX I

			E	(Thousand acres)	(salar							
	1925 26 to 19_9 30 Average	to 19_9						1930 H	1930 31 to 1934 35 Average			
	Arca	Per	183031	1931 32	1632 23	1933 34	1934 32	470.0	ler rent	1937 36	16 9861	
Empire countries		ļ) 				l					
India (racluding Burma)	1 347	13	1 408	1 432	1,399	1,375	1 563	1 430	55	1 535	1,497	
Canada	33	00	=	120	25	Ş	7	\$	80	Ş	10	•3
Southern Rhodens	g	0.5	22	6	ಸ	÷	=	8		3	; =	86
Nymesland	40	0	48	ş	g	Ŧ	38	ţ	0	\$: 5	
Union of S Africa	90	0 8	(a)	<u>©</u>	<u>e</u>	ž.	ä	9	0	8	(3	
Australia	¢1	0 03	6	20	8	9	a	=		: =	1	
Northern Rhodosia	(a)		61	n	e	**	n	C1	000	67	:	
Now Zeeland	_	0 0	-	¢ì	64	64		cı	0	-	3	
Foreign countries			_					1	3	•	è	
USA	1,757	20 G	2,113	2,000	1,409	1,733	0,270	1,707	97 9	1,437	1,438	
Notherland If Indies	400	8 4	513	879	479	5	523	200	8	22	419	
C S S R	1218	- 8	234	497	610	468	468	465	4	487	201	

_				350	304	321	321	310	2 20	255	260
	203	4	7	-		-	-			108	273
Dracii	-		230	200	157	102	181	961		2	
Groce	277	;			- 52	184	137	07.1	0 2	152	162
	105	33	108	183	3			-		97.	1,40
Philippures	-		91	170	8	120	116	128	-	140	140
Turkoy	901			Ē	6	112	101	130	2 1	110	109
***************************************	191	0	2		1	8	-	0.0	9	83	80
	96	1 6	108	103	8	8	8	:		_	
Italy	: 5	-	88	96	84	84	86	9.0	*	83	84
Japan	5 5	: :	Ê	- 88	8	5	13	49	Ξ	98	92
Bulgaria	8	: ;	9	: 8	17	44	44	41	0 7	46	46
Dranco	-	-	9	3		-		5	6	25	8
	52	6 0	28	05	5	40	;	3			
Hungary	8	-	8	26	27	8	8	27	0 44	g	32
Gormany	3		1					8	-	26	50
Grochoslovakia	12	0.3	8	81	22	3	3	3	,	1	
Rest of the countries of the world (excluding	653	11 0	609	25	100	434	483	112	8 3	28	574
Conna	5 036	100	167-0	0.678	5 750	5 973	5 708	0 120	100 C	5 010	5 906
World area (exclusing Cities)				1	3	1 205	1 292	(6) 1 298		1 363	1315
China	(3)	3	(g)	(a)	(8)					1 000	7 201
Worl I total (including China)	(a)	3	3	(0)	(g	1238	1 000	(0) 142/		007	-

ingures extracted from the publications of the fed from the table green in Appendix IV (a) Figures not swalebbe (b) Average of two years 1933 34 and 1934 35

Production of tobacco in the principal countries of the world APPENDIX II.

					388	8							
		16-986I		1,376	\$	83	22	2	10	-	(9)	1,166	800
		1932-38		1,440	19	ŝ	82	10	0	-	-	1,207	381
	1030 11 to 1034 35 Averago	Per		28.3	0 0	0 3	0	80	0	0 02	0 03	27 5	. 2
	1030 T	Pre lur tion		1,378	\$	2	18	=	9	-	-	1,340	341
		1834-32		1,518	8	2	2	2		6.9	-	1,082	370
		78-8861		1,251	#	12	7	15	-	24	-	1 300	230
		1932-33		1,393	10	2	•	n	2	-	PH	1,023	340
(Million lb)		25-1561		1 350	19	2	ត	8	2	-	-	1 584	373
٦		183031		1,337	33	•	2	2	87	-	-	1,617	282
	1925 20 to 1920 30 Average	Per		2.	0 7	0 3	0 3	0	100		0 03	31 8	0.0
	1025 20 30 Ave	Pro luc tion		1,370	33	18	2	22	eı	3	-	1,357	316
													•

Empire countries

Indla (including Burma)

Canada

Union of South Africa Southern Rhodesta

Nyasaland Australia Foreign countries

U. S. S. R.

Northern Rhodesia

New 7caland

an facing	most select to the factor						1				
0.41	6.23		6 2 30	0.008	190 9	3	€	(9)	9	3	Worl I total (Including China)
L	200		1339	1 323	1389	3	ε	(9)	6	3	Clus
1 404	1 303		976	400					2007	4 800	Worll total (exeluting Cl na)
5 013	4 900	100 0	4 873	4741	4 672	4 400	8767	102	0 001	1	(t ma)
253	497	9 8	411	411	435	465	480	629	101	491	Rest of the countries of the world (excluding
					1	3	3	22	•	9	Crechoslovakia
æ.	ន	9 0	23	8	20	92	5	9	,		Hunpary
2	;	*	Š	4	S	8	08	22	-	25	
70	,			_		3	•	20	<u>-</u>	99	Sul S
42	5	61	93	99	-	ě	- 7	;	:	3	B ilgaria
67	19	-	23	47	2	38	89	Ş		; ;	Germany
2	- 22	- -	8	77	62	62	19	46	- 6 0	77	Phil ppinos
: ;	!	•	200	7.7	93	90	96	102	2	102	
	3		1	:	2	2	-	- 101	4	116	100
99	20	1.7	83	92	ğ	\$	-	3		5	France
81	78	1.5	12	13	63	8	2	g		2	Grecos
2	102	7	103	93	121	79	92	145	8	90.	Italy
į			3	8	86	102	103	120	6 -	0	
97	102	6	100	- 60.	-	-	ĝ	30	89	180	Mark and and W Torline
100	116	2 2	155	115	123	18.5	104			257	Japan
2	140	30	140	149	147	134	101	142			Bracil
102	213	4 4	210	220	222	204	220	215			

Igures extracts from 10 publications of the Losgue of Nations and the Imparial Losco me Committee. London. Ligares for 1930 31 converse extracted from Appendix V. (6) Figures not yet smalphe.

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APPENDIA III

Imports† of unmanufactured tobacco into the principal importing countries of the world [Million Ib]

	1930	1931	1932	1933	1934	Average 1930 34	1935	1936
Empire countries								
United Kingdom	237	104	175	211	239	211	252	271
Australia(a)	20	22	15	15	12	17	17	20
Eire	12	n	7	5	19	11	11	15
Canada	17	14	10	10	9	12	7	3
British Malaya	s	6	4	3	3	5	3	2
Foreign countries						(
Germany	233	154	162	174	190	183	192	192
U S A (b)	104	95	68	73	77	83	85	90
France	155	111	106	86	61	104	75	66
Netherlands	70	74	71	77	65	71	61	62
Spain	57	65	83	63	40	63	61	(c)
Belgium	49	50	49	44	44	47	44	41
Czechoslovakia	22	23	22	30	10	21	25	20
Poland	39	20	15	19	16	22	18	14
China	129	168	83	56	68	100	18	25
Total	1,152	1 007	875	866	851	950	869	821

⁽a) Years ending June 1930 (b) Imports for home consumption (c) Figures not yet available (figer 'Plantation Crops') Impersal Economic Committee I ondon, 1937)

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APPENDIX III-concld

Exports; of unmanufactured tobacco from the prencipal exporting countries of the world
[Milhon lb]

	r.	пипоп	,				;	
	1930	1931	1932	1933	1934	Average 1930 34	193ə	1936
Empre countries								
India (by sea)	29	25	22	28	27	26	27	29
Southern Rhodesia	7	8	13	12	21	12	18	18
hyssaland	13	11	15	10	13	12	10	13
Canada	5	7	11	14	9	9	8	10
horthern Rhodesia	1	1	1	1	1	1	1	1
Foreign countries								
US A.	580	52:	411	439	441	479	396	4 0
Greece	108	9	5 7	8 77	82	88	111	86
hetherlands E Indies	177	18	4 16	1 100	94	145	108	1
Brazal	84	L 8	5 6	4 4	3 67	69	72	İ
Bulgaria	45	, , t	4 4	5 5	0 46	45	54	41
Turkey	75	2 .	19 6	54 5	7 40	56	5 45	55
China	1	6	18	3 2	3	3 20	0 30	39
Philippines	4	6	50 4	59 2	2	, 4	4	,
Cuba	5	8	40	36 2	2 2	3	8 3	2.5
Total	1 23	5 11	51 9	96 95	27 93	0 1 04	8 95	950

APPENDIXGIV
free under t brees in In hand Burnes

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		ethel letot berrð æmm8 bes	S	€Ē	2	€. E.	(S)	€.	€ <u>₹</u>	1,07
		-emmg	ĝ.	1 5	101	89	11	ŝ	100	=
		Athal Indox	E .	35	€ 5	£3	€ <u>₹</u>	<u> </u>	3.T.	1,178
	_	Oziecza.	£	(3	ε	3	3	Ξ	Ē	P
		Myser	2	8	5	3	=	02	ន	12
	nice	enous solice seem	; \$	911	22	īg	50	150	2	1 2
	in Ban States	Decres 2 states and Ecilapur	, E	[æ	3	3	£	Ē	3	3
		Cooch Behar	(E)	3	3	•	Ξ	3	3	3
		Abroda	, -	1 2	ñ	ñ	7	ξ,	82	2
er Eros)		Tetal	€=	€	εž	Sź	eñ	€ <u>5</u>	≅ <u>#</u>	3 N
(11 s nann 1 pe rex)		ल्यक्र	÷	ŝ	2	\$	=	ũ	6	2
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	British Is Ba	Bornbay	100 ·	101	\$110	.120	102	•105	•110	123
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1		H _{eco} sil.	£ .	242	208	20H	200	888	207	- 180
I		THOL	ara	1008	833	100	622	800	918	946
	_	Perk 1.	Tre war average (average of 5 yrs en (4)s	0" 0101	17 0501	1021 22	1022 23	1021 24	Average 1919 20 to 1923 24	1024 25

		901	al Pigu	† Provisional Piguros	4		plete	(b) Figures incomplete	Pigur	9		arlable	(a) Figures not available	Figure	3		Sind	• Including Sind
					3	3	8	9	€	€	8	3	ভ	170	126	313	<u> </u>	1937 38†
<u>e</u>	98	3	3	76	3 8	3 1	9 9	ę :	€	\$	70	25	253	145	11100	307	1 016	1936 37
(g)	98	(a)	3	23	19	202	2	١	1:			1	÷	1		1	-	Avorage por cent
		901	3 6	. 8	80	3 8	0.4	3	22.2	3.4	9	5 2	5		10	1		to 1935 36
				ä	0	<u>ت</u>	ž	9	290	96	8	F	264	125	142	203	1021	Access 1929 30
1,462	ã	1350	1.5	2	12	1	1	1		3	5	9	82	8	140	101	1101	1075 36
1,611	101	1,407	48	ន	75	25	83	2	300	9	ò	8	-	2	ŝ	308	1 143	1034 35
		1,401	9	ន	10	25	83	69	315	48	90	88	60%	9		900		
1 502	90,			-	:	4	20	4	£,	8	81	ę,	218	140	140	086	080	***
1,375	õ	1.272	-	Ě	-	: :	;	;	8	\$	22	8	226	13	191	281	1 023	1832 33
1,309	88	1 311	5	55	20	2	2	;	8		,	3	202	120	7	293	1 067	931 72
1,430	= =	1,348	8	22	60	8	Z	36	166	5	- 5	è		3	3	100	392	030 11
		-	ŝ	7	84	22	S	ļ,	305	49	-	F	67.0	-	-	_	3	04.028
1.408	_ <u>=</u>	100	_				2	45	306	8	101	29	257	E	142	908	989	Ť
1,473	117	1.356	25	1	1	†:	1	1	†	Ì	1				_	2	200	to 1028 20
	901	TOZ.	= 8	5	22	<u> </u>	<u>e</u>	8		2	92	8	254	*120	135	V00	l è	1000
(g)	_	(g)	<u>. </u>	-	+	+-	+	1	3 ,	3	₩	2	255	153	146	291	1 029	1 1
8	114	234	40	28	00	9	(4)	ž	£	-	! ;	_	2	- 5	147	230	1 023	1 1 1
(a)	_	(9)		3	9	E	£	Ħ	907	9	130	ě.	000	-		-	-	1020 27
346	118 1	938	45	ř	3		<u>.</u>	D.	88	86	76	03	273	601+	137	206	9	
257	101	156	40	20	116	- 5	: 3		3	;	2	12	7	•122	132	203	978	1045.26
312	80	223	32	31	155	3	(0)	13	6,	3	-	-	_					
(g)	-	- (4)			•													

†† Comprise of 127,000 acres in Bihar and 20,000 acres in Orses (a) Figures not available Including Sind

Estemates of production of raw tobacco in India and Burms . APPENDIX V

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		Others	22252 22252	21	8	21 g
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		едоиматой в тями.	7583883	19	00 00	22
	Indian States	Decren States and Jugadiod	======	2	[2	22
	Indu	Cooch Behar	ន្តមន្តន្តន	22	4.2	ងដ
1		Baroda	r∞∞≈==	œ	1.6	æ 3
n mins		[n30]T	838888	93	16 3	88
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1	ndıa	Retbald	101 113 107 128 116	115	19.7	<u>5</u> 8
	British India	Бошььу	8488885	3	1 2	84
}	Pi	Beaut Date resid	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	82	10 4	63
1		legnəil	123 123 123 123 129	129	22 3	130
		Is1o'T	455 478 478 430 449 454	183	83 7	(a)
		Yours	1670 31 1931 32 1933 33 1934 35 1935 36	Average Pro duction	Average Per centage	1936 37‡ 1937 38

*Estimated production assumpled from marketing survey enquiries

11 Montanal figures of the Companies of

Estimates of area (in acres) an Ar & Jerent types of tobacro grown in India and Hur na in 1131 35 APPENDIX VI

			-	Woot a m Tabaou a	Tabaou						Nicotions Ratios	Ration		
1 rov nee or State	C ga	C ga rotte	Cgar	Ch roat	B ds	Surano (C)	Hoolah Ci ta n	Sauff	Total	Hootah Che ving	Che ving	Shaff	lotal	Grand
	9	try)	1	Ì				1					_	
Br t ch India							400		6 209	0 208		_	0 208	12 537
Amam								9	020 502	-	530		10° 636	307 600
Bengal		_	9	8 990		_		3	27 025		17 158	_	55 175	133 100
Bil ar and Or ont		4 610			50	_	_		170.003	90		200	1 500	179 803
Bombay	122				122 501	_	-	3	107 34					15 491
Central Provinces and						282	8 =	_	101-01	1 206			1 290	1 296
Both	_					-		0000	231 000	1 000			1 000	992 000
Madres	40 000	•0000 cg	2 000	107 550	e de de	3	_			5 628	_	8 430	14 008	14 058
North Wort Frontier							71 893		71 693			1 913	15 926	87 819
luniab	_	_			_	_	1 633		4 827		_			4 827
\$ nd	220			_		_	_		18 051	74 624	10 661	_	85 285	100 336
United Provinces	100	0		_	£ 	1981	2	_		_	_	_	28	28
Ајшеге Мегwara		_		_	_	_	_				_	_		0
Coorg		_		_	_		6			-	1		1	
Total Brtsh Ind a	40 472	2 69 610	0 0 0 0	116 400	130 101	1 139 667	349 602	14 838	85 838	213 814	8 310	10 873	283 000	1149 004
P. I.P.	is fgure of	65 000 ac	res refers t	to area in	Guntur D	strict (Mi	ndras) and	t from max	• This faure of 65 000 serves refers to amea, at Cambarr Dakrack (Madran) and s only a very rough approximate as 410 lest to used externerely for making at second wherever there is the set as demand for 11 from manarifacturers of o garetter and cut and pips tobaccos.	approxima	ate as the ttes and e	leaf to uso at and pip	d extensive e tobacco	yle .
		,												

1	362 a #	of area (n acres	under d	API Jene 11	TENDIX IF \$ of to	APPENDIX VI—concid : If $f_F > 0$ tobacto prown	eld wn n fn	APPENDIX VI-concid a acres) under d ffere tt. p. 20 tokatto proun n Ind a and Bu ma 1991 3	u ma 193	113			
				N cot an	N cot ang Taba um	90				ν 00	A cot ana Rust ca.	. ca.		
Fror nee or State	Cgn rette (Vrg n a)	C.gs. rette (Coun try)	Cger	Cheroot	Bd	Chew ng	Chew ng Ch Lers etc	Snud	Total	Hookak Chew ng	Chew ng	Snuff	Total	Grand
Ind on States														
Baroda					20 023	9 000	21 610	1 937	59 370	_				59 370
Cooch Beher				2 800		200	36 200	907	29 600	18 800	200	-	19 000	98 000
Centrel Ind a States										0000			0000	9 000
Decren S aves and Ko ha					34 974	6 632	6 632	3 206	\$08.20	1 000	_	_	000	52 304
G eratand W I States					200				200					500
Gwal or							_			6 356			6 350	6 356
A rem - Domin on		9		9 964	23 606	2 000	36 835		74 503	_				14 501
Kashm r					_		92		95	3 660		200	3 800	3 010
Mucras States					_	31			31					3
hypeore	100			_	12 026	P 887	_	634	22 646					22 046
Punjab and S nd States							2 763		2 763	d 331			6 331	9 094
Rafputana Stat m							_			13 400			13 400	13 400
Un ted Prov ness States										1 400			1 400	3 400
Total Ind an States	100	3		12 464	100 618	24 650	008 01	5 937	249 805	01947	200	200	62 347	312 212
Total Ind a	40 572	69 610	5 010	128 964	230 909	164 317	465 492	20 773	1 115 703	305 791	28 549	11,073	346 413	1 461 116
Bu ma	_	L		84 000	84 000 13 000	2 000	Ĺ		102 000					109 000

of production (in thousand pownls) of different lippes of raw tobacco produce I sa India and Hurma in 1934 35 APPFINDIX VII

-				Mach one Tabasum	Tabaeu	F				ê.	A 100cmun Avenue Avenue			
	1	1	1		1							-	-	Grand
Province or State	Ciga rotto (Virgi	Clga rotte (Coun	Cigar	Cheroot	Bids	Ci owing Chilam,	Chalam, cte	Bud	Total	Hoolah	Hoolah Chewing	Snull	Tocar	
	nia)	try												
British India							7.021		7,021	7,020			7,020	14 041
Ашеп						90		103	214 013	106 800	222		107,451	322,361
Bongal		_	2	25	9		_		63 858	31,715	13,887		45,602	112,458
Bibar and Orlens		3 898			2 2 2			6 701	107 339	603		301	003	108,242
Bombay	5				2	_	_		9 744					9,744
Central Provinces and						3				3,305			3,305	3,305
Delhi						70 149		3 300	283 908	1 020			1,050	285 048
Madras	26 480	68 770		2007/01 950 0	_	_				13 507	_	20 232	33,730	33,730
North West Frontier							70 050		10 050	13 62.	_	1,803	15 518	82,568
Punjab						_	7 63 1		8 048	_	_			8 048
Sind.	614		_			7 637	_	_	33 983	169,770	24,254	_	194 024	228,007
United Provinces	2		_	_	· 	_	_	_			_	_		88
Азтого Мегипта		_			_		_	_	_	` 		_	_	_
Occus	_		_	_	_	_	4	_						
Total Brain's India	27 137	7 72 606		5 044 116 484	4 80 810	127 897	161 331	10 538	801.916	#	8 18 606	-	22 426 408 640	1 210,690
	ا ا	* Thus r	cfers to	production shenever to	n Gente	r Dutn t	(Nodr s) n	nd se only	 The refers to production a Garder Dietr t (Note 9) and a only a very rough as proatmule as the leaf is used extensively for maintre glorogis whenever there is itsue or not demand for it from manufactures of e garettes and out and pupe tobaccos. 	gh at prov	imute as t	to leaf is	used exten	artoly

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				Nicot ana Tabacum	Tabacun					Ž.	Moot and Rustica	ustica		
Province or State	Ciga rette (Virgi nia)	Giga retta (Coun try)	Cigar	Cherroot	Bids	Chewrag Chalese etc	Hookerh Chalcon ele	Snuff	Total	Hookah.	Hookah. Chaw ng	Snuff	Total	Grand
Indian States														
Barada					12 987	2 604	9 335	841	25 767				_	25 767
Cocob Behar				2 620		210	37 938	105	40 873	19 702	210		19 913	60 785
Central India States										9 000			000 6	000 6
Deccan States and Kolba					21 054	3 932	3 932	996	30 884	209			602	31 486
Gujanet and W I States					87		_		87	_	_			67
Gweltor										6 356			8,358	6 336
Attem s Dom mons		en		4 882	11 611	880	19 029		36 505					36 505
Kashmir						_	\$		40	2 928		160	3 088	3,128
Madeas States		_		_		23			88					00
Mysore	36				7 696	8 404		406	16 542					18.642
Punjsb and Sand States							4 631		4 531	6 331			6 331	10.862
Rajputana States										13 400			13 400	18 40
United Provinces States										28 686	_		000	909 6
Total Indian States	98	**		7 602	53 435	16 153	74 805	3 318	155 257	63 005	910	160	22.5	910 630
Total Indea	27 173	72 668	5 044	123 9 86	134 246	144 056	436 136	13 906	957 213	410 523	38 906	92.586	÷	115
Burma				83 160	83 160 12 870	4 950			100 080					100 980
				_			_			_		_	_	_

AI PPINDIX VIII

NICOTIANA TABACOM

Anna de Company (19 market) Oggenete (Vigan s) Tra (Dick (Vigan s) Share (Vigan s)	MICONTAIN A MAN AND AND AND AND AND AND AND AND AND A	of area (in activa) unacte a yerran upper of Chemother (In activa)		Rack Districts His Rock Groun) to the Hook Ground Districts cured	10 Itangpur 8 000	33 Factoric 1119 de	2 600 (1 ntb 17 3 250 01 7 0 Kistons and Go la vari	Polone	500 Sukkur 000 hahar terput	13y rat vd 8 698 008	Rangelore	2 032 7 269 61 774 4 619 6 010	
2 600 (List and		area (12 acres)	otte (Virgin a)		1		2 000						

APPENDIX

Nicotland Estimates of area (in acres) under d fferent types of tobacco grown

			B	ds			Chewin	g
1	Prov nce or State	Rack cured	Ground	D stricts	Rack	Cround	Pt cured.	D str cts.
_	British Ind a	_	_					
1 /	Assum							
2,]	Bengal	ĺ			226	774		Rangpur a
3, 1	Bihar and Or san		4 590			43 30°		Muzzafarpur a
	Bombay	2 50	119 751	Ka ra, Belgaum Satara, Abmeda	2 909	1022	10 000	Kaira, Belgar Satara a Broach
	C P and Bernr			bad and Broach	İ	2 905	968	Bilaspur Face Amreat Chii
6 :	Madras	3 600		Salem and L r	28,266	28 *66	10 69	Boldhana. Combatore T ch nopoly Madu Nello e S Kans
7)	Pun sb	1	1		1	'		
8. 1	S nd	-				.		
9	UP	i	60	Farekhabad		1861		S tapur Bara Ban Gorakhpur K
0	Coorg				9			Bahra ob.
1	Total Brit sl Ind s	5 750	124,401		39 501	87 430	21 36	
	Ind on Sta s							
2	Baroda	3 000	26 423	Baroda Dt (Pet- lad Tuloka) and Mehanna Dt	2 000	4 000		Petlad Taluka.
3	Cooch Behar	!	ì	Di		200		Cooch Behar
	Deccan States and Kolhapur Gujrat and W I	1 600	33 374 200	Sangl Marsy and Kollispur		6 232	1 300	Sangl Mrsj at Kolhapur
6	States Nizam s Doms mons	4 750	18,945	B der Gulbarga, Mahoobungar Osmanabad, etc	1 200	800	ļ	B der Golbers Osmanaba Mahoobnegar etc
7	Kashm r						i	
8.	Madras States				31	- 1		
	Mysore		12,025	Hysore and Hassan	9 887		į	Tumkur Koli and Chitaldrug
0	Punjab and S nd States							
1.	Total Indian	9 350	91 468		13 118	10,232	1 300	
2	States Total Ind #	15 100	21, 869		43 519	97 662	23 036	
22	Burma		13,000			5 000 a		_

VIII-contd

TABLCUM.

in India and Burma classified according to the methods of curing (1934-35)

		Hoo	kah Cl	n Lam	s, etc.	·			Snuff.		_
Rack sured.	Groun		Pit ured.		Districts.	Rack	Gre	red red	Pit cured.	Districts.	_
6,263				G	oalpara. Kamrup. \owgong and smaller areas n other						1
43,955	150 5	80		Ł	and smaller areas districts. languar and Jalpangur	500				Rangour	3
200	203	- 1	2.000		Inzaffarpur and Purnea	500	ı	0 635	1	Kaira Belgaum,	4
200	1	714	2,90	1	Ahmedabad and Broach. Bilaspur Sangor Chbindwara	1			1	1	5
	1		4,50	1	etc	3 ****	,			Kistna, S. Kanara, Salem.	6
				1			1		1	1	7
		5.8	50 32		Jallander Ferozepur Gujrat Shahpur etc. Hyd rabad Sukkur \awabahi				!	1	9
	18.	,030			and Dadu S tapur Bara Bank Gorakhp and Bahrasch		ļ		İ	1	1
L	Ì			1			1				1
80,45	4 24	3,919	55,2	29		4,20	<u> </u>	10 63	<u>-</u>		_
100	00 1	1,510			Baroda D strict and Mebana District	1	1	1 93	,	Baroda Du- tnet	1
90	00	27 20			Cooch Behar	10	00			Cooch Behar Sangi and	1
		5 53	1	000	Sangh Mirsj » d he hapur		ı	3 %	6]	Mira)	1
		28,83	5		B cer Gulbergs, etc.		1				1
	1	2	10			1					1
								63	14	Mysore and Hassan	2
		9	~1 :	1,845	·		-1	53			-;
15	000	84,0	113	2 843	21		100	164			:

APPENDI'N VIII -coacld

Astumates of area (un acres) under if 🗓 re t - types of tol acco groven in India and Burma class fied according to the methods of cur n.j MICOTIANA RUSTIGA

		-	- 1	1	(193	(1934 35)	1			1			
		,	Hookah				Chewing	ing			Baud	b	
Prov. es or State,	Back	Ground P.t. curred, o red	Z.E	D etriota	Rack	Ground Pt.	P t-	D atr ets	Rack	Rack Ground oured cured	27 E	D streets	
Brib A Ind a					L		L				I		
Амыт	0,208			Goal are, Kemens,			_						-
B ngal	28 500	70,500		All over Bengal but		630		Rangpur					'/2
B bar and Orisas		18,017			_	17 168	_						
Вошвау		1 000		Ka ra, Safare Bel			_			200		Kaira, Satora and	
Delbi		1 206		Delbi								Belgaon	
Madree	1 000			Godavan		•							
N W F Prov nos		829 9		Peshawar Mardan and Banna.						8 430		Peshawar and Mar-	
Panyab		13 983		Hosh ary ur Attock, Gurgaen, etc						1 943		dan Attock	
				•			•						

							403							
											_			
		10 873			_	_			002				200	11 073
I aruthabed Ba dam Fampur I tab eto					Cooch Bohar			_						
10 001		28 349			200								200	28 549
Farukhabad, Ba daun Jampur Ftah Aligarh eto					Cacch Bebar									
14,624	88	68 211 076			4 700 14 100	0 000 tl	1 000	8 356	3 660	6 331	13 400	1 400	4 700 57 247	37 468 268 323
United Froringes	Ajmer Merwara	Mary Delich India 32,768	•	Ind an States	Gooch Debar 4 70	Central India States	Decoa States and Kol	Gwallor	Kashmir	Ponfab and Sind Statos	Raje utana States	United Province States	Total Indian States	Total India

404

APPENDIX IX

Изсолгана Тавасти Betimates of production (in thousand pounds) of diffe

Provide 0 State The Real Curved Place Curved Curve		Cogarette (Virginia)	ette nu)	Cagan	Cigaretto (Country)	(r.h)		Cigar			Cheroot	
DOTHER ES 139 8532 8505 6 50 302	Provide o State	Flue	Rack	Flue	Rack	Ground		Rack	Ground	Flue	Rack	Ground
OTHER S 19 3 656 3 6	Jengal							e e		_	9 422	
25 159 3 438 66 332 514 70 Interpretation of the control of the	Shar and Orssa				_	3 896						
Alborances 70 5.156 1.294 5.438 65.332 7.10 1.10 1.10 1.10 1.10 1.10 1.10 1.10	tombay	54	61									
A Pornaces 70 Polat. 10 20 810 1243 1431 15 15 15 15 15 15 15 15 15 15 15 15 15	Indrus	25 158	1 324				_	5 034	_		107 062	
70 3 39 22 50 1 243 65 255 3 899	pur	818										
Total 25 870 1 342 86 335 3 996	Inted Provinces	70										
204al 25 670 1 343 3 438 66 335 3 9995	ooch Behar										2 620	
Total 25 670 1 342 66 335 3 995	ідат в Рошніова				r						4 394	488
Total 25,870 1 343 3 438 66,336 3 8956	dysore	38										
Cuttna	Total	25 830	1 343	3 438	65 335	3 895		5 044			123 498	488
	Burna				L						24 750	58 410

ALLENDIX IX-cond Neoptana Tabagun

l stimol a of 12 d ction (in thousand pounds) of different types of row tobacco as India and Burms classified according to the m thods of cun ignored.

				(193	(3934 33)		i			•	
4	£	Buch	2	Сћечив		Hon	Hook sh Chilim, "te	m, etc		Shuff	
l'tovince gf klalo	Rack curod	Ground	Rack	Gre ind cared	Pu eured	Rack cured	Ground	1 rt cured	Rack	Ground	Prt
Assam						1621					
Bongal			237	₩		46 100	46 100 157 809	-	524		
Bihar an I Grissa.		3 878		36 C26			22 458				
Bornhay	1 655	72 001	707	6 181	6 020	12	12 077	1 210	301	6 403	
C P and Baran				1 827	609		, 482	1 820			
Madras	3 150		29 469	29 409	11 204				3.300	_	
Punjati					_		21 015	43,026	}		
Synd											
UP		88		4 274			2 2			_	
Coorg			4				250				
1011 000 30 707	4 806	76 005	30 BI4	73 170	17 833	1324	73 24. 2 6,018	52.071	4 181	6 403	

APPENDIX IX-contd

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	1		Ē	ня (193	135)		1	C PRIG (1931-35)			
	#	Badı	٥	Clowing		Hoo	Hookah Chilam etc	ım cfe		Snuff	
Province and States	Rack	Groun 1	Rack	Ground	1 t	Rack c ired	Gro m ?	1 it	Rack	Ground	Prt
Indian States											
Baroda	1 303	11 685	808	- 22	_		_				
Cooch Behar			3		_	0.00	4 1000			ž	
	_			97		8 468	29 470		105	_	
Second States and Kolhapur	1 033	20 021		16 8	1 021		3 450	485		2 966	
Galrat and W India States	_	87		_						2	
Nizam s Dominions	6000	, ,	-		_	_					
Kashmr	-	22.0	288	292			19 029				
Madrae Stotes					_		ş				
Santa and and and and and and and and and an			8	_							
Myeore		2 000				_					
Punjab and Sind States	_	0.00	5				_			406	
Total Indian				Ī			1 510	3 021			
SUPERINTENDE	4 060	48 773	9886	076.9	2	19 80	1		Ì	1	
Total India	_				1 021	808 23	58 474	3 203	102	3 213	
Burma	10 40	121 778	40 802	84 339	18 854	66 050	314 512	55 574	4 290	9 616	
		12 870		4 950							

APPENDIX IX-const

Risentes of greduction (or denound pound) of different types of rew wo see on Index and Durma classified according to the methods of curves (1991-55) NICOTIANA RUNTICA

Province or Situle Harck Oround	Hookah		Свечтя			Shuff	
British India 7 020 20 724 Ottens P. 1,000		Rack	Ground	Pat cure i	Rack	Ground	Pit
7 020 20 724 0 724 P							
0724 00 7	7 020						
. 1,000 P. 1,000			SAS.			_	
9. 1,000 1,000 1,000	33 235		100				
D 1,000 12 k	8		2				
P 1,069 13 h 18 e 18 c	33.005					30	
P 13 h							
13 68 7 869 7							
Merwaya 1697	200		_			20 232	
				_		1 893	
	82		24 254				
Int Harneb Inta							
-			38 696			22,426	

APPENDIX IX—coneld

Felomates of production (in thousand pounds) of different types of raw t bacco in India and Burnah classified according to the methods of NICOTIANA RUSTICA

	-			-	-	1	-		
		Rookak		_	Chowing			Snuff	
Prowunce or State	Back	Ground	Pit	Rack cured	Groun !	Pit	Rack	Ground cure 1	Prt
Indian States									
Cooch Behar	4 926	14 776		_	210		_		_
Central India States		000 6					_		
Deccan States and Kolhapur		003							
Gwaltor		8 356							
Kashmu		2 928						094	
Punjab and Sind States		6 331						3	
Rajputana States		13 400						_	
U P States		2 686							
Total Indian States	4 926	68 079			210			160	
Total India	39 720	370 803			38 908			22 588	
									000 77

g, transplanting, harresting and marketing of different types of tehacco grown in important areas of India APPFINDIX X

about a the normal periods of sound, transferting, animaged	tods of south	, transplanteng, mar	and Barma			
Districts	Species	Variety	Sowing	Fransplanting	Harvesting	Marketing
		1 Сюлинти	-			Townson March.
Ountur (Madras)	N tabacum Virginia		August Soptember Oct Nov	Oct Nov	Dec-Feb	April June
Da	Do	Country or Dest	Do	å,	Soutember	October-November,
Sabaranur (U P)	00	Vrginia	Aprd Mav	June	De	Å
Jhanai (U P.)	Do O	Do	å	8	2	Novomber Jan
Mymorg State	Do	Virginia (let	April	June	October	January
Do	9	Virginia (2nd season)	May	July	Taggarage	
		2 Croas	2 Claar and Chfroor			
	2	Cheroot (Dess)	August September Sopt -Nov	Popt -Nov	Dec 1 ob	Teb July
Guntur (Madres)	3 å	8	Sept Oct	Nov Dec	Jan March	April Sept
Virngaputam (Madras)	3 4	T. r. ben Chancot	. 2	å	õ	Do
I'nst & West Godsvari (Madras) Kusna (Madras)	D o	Do	å	£	å 	ů,
Combatore (Madras)	Do	Cheroot	August	Oct Nov	Jun 1eb	March May

VPPFNDIA V- and Mateurent showing the normal female for wing temphinisms have ess

and Remains and marketens I different toyers of tobarco groups in summer	areas of India	Marketin		May.July	° å	May	May October	May July	\$ &			March August,	March-July. March
c tobacco group 12		Harrettag		1 cb March	2	Jane March	lebrunty April	Ipril May Do	ν.			Jahuary Tok Men	Tannarı
dong I defferent topes		Transfrading		Nov Dee	h wember	Apt was	Oct No.	2	8		Ortober	-	September
dry retail and mark		-Cowfm,	2 Cloans and Chero it - all	Apr Oct	Ungust	Pulv Ingast	Softenier Oet	° 6	<u> </u>	_		mber-Oct	
) mets	Cours AV	Cheroot D,	Cantur type	Jori Jat	Burmeso Havana Chercet to no	type Aunyan hee Lorch	light element	3 Вил		'alchiet	
		sh cite	2	Do D,	£ £	ņ	å					Pa Pa	-
	Pretry te		Madura (Madras)	Trichinopoly (Ma fras)	Hyderalnd State	Raugpur (Tengal)	Toungoo (Burma)	Upper Burna dry zone district		Salom (Madma)	S. Lanars (Madras)	Uniberga & Raichur in	-

											-										
9.7	January June	March June	Feb June	January June	Nov June	Jonnson June	- Commo	January April	May July			January April	March	130		March June	June September	June September	After harvest	year	
Do	January March	March April	Feb March	In March	Mar March	NOV MAN	Nov Dec	January Feb	Anril May			January April	January	ځ .	3	Fel ruary March	May Juno	May	February Apral	May June	
De		_	_	_		2	Sopt Oct	August Sept	_	_		Oct Dec	Sentember		8	November	March	å	New Dee	March Anni	
-	True Tale	Comp attac			June July	July	July August	Two Inly	Contraction of the contraction o	Sopt Oot	Поокм	Angust Nov		ang veges	July	Sept October	November Dec	Do	August Nov	Transact I oh	Octions 1 oc
	Zenia	_	_		Do.	Pan tharpuri			Dest Zarda (Lai e	Kunywa hee Bada Sept Oct melu hng Anwun	4 110			Jawars	Bhushar	Vilayata	Dest	Colomities	Calcuting (Mahu)		kbu)
	Do	e G	N ration Calcutia	N tabacura Local	å	N rustica		IN CALL MOURS	å	Do				N tal acum Jawars	ũ	N rustica Vilavata	N tehnoum Deas	N - 41	The state of	3 6	ea
	Bitar (IIy loral a !)			Broach (Bombay)	Refram (Bombay)			Mysore State	Baroda Stato	Upper B trms Distis			Аквал	Niram a Dominians	Š.	orten of the same	Dittat tale Office	Lanjaro	Punjab	I RTUKBEGRA (O. C.)	o D

APPENDIX Xcom	ensplanting harvesting and marketing of different types of tobacoo grown in important areas of Ind a	and Burna	
	Statement show ng the normal periods of sowing		

	rtant areas of Ind o		Marketing
	орасоо дгоши си стро		Harvesting
	of different Lypes of to		Transplanting
FFENDIX X -co M	ormal persoko of sowng-transplantusy harvestug and markeling of different Lipes of tobazon grown in important areas of Ind.		Sowing
Ψ	transplanting has		Variety
	mal periods of soioing		Specios
	6	ı	

Districts

March April

October Nov

September Oct

Calcutta Vilayata Calcutta Motthan Mothers Vilayate Naokhol Bhengs

N rustica

å

HOOFAR con d

February May (2 outtings) 1 obruary March

Sept Nov November September

August October August

Nov Dec

September

N tabacum N tabacum

blidnapore (Bengal)

Nadia (Bengal)

Rangpur (Bengal)

Rajahahi (Bengal) Rangpur (Bengal)

Ajodhya (U P)

Jaugur (U P)

Sitapur (U P)

N rustica

412

Juna October August Sept

March April

January March

January March

May October June August July August

April May

Pebruary March Lebruary April

October Nov

September Oct

September

June and July

I obrusty April

No transplanting

erop Karo & Acho 2nd Soptember Oct crop Den

č

Khaupur State

October Nov

March April April May

November December

October Juno

Karo & Acho (mostly Karo) Karo & Acho lat

Nawabshah and Hyderabad

(Sind) Dadu (Sind)

January Feb

July Angust

_	January Leo	January	Helt March May July		Do	Do Do	_	Do March July	January March		1 oh March March June	7	Teo when	_	1 ch March	Mel April May October		1 er 1 th March July	1 1.1 April My October			O 1 N v Doc January June	Anna May May Into		
5 Chavina	August October Nov	October Nov	_	Sopt October New Jon	Do	2	October	- Do	Sept Uct	July Septement	Newsonk	hept Oct	August Nov 1 Nov 13c		Lidy Angried Sept Oct	_	September the to	Look Out. November		Soft micr Of the	2	Laby Aug mt		pol por	
9	L'and twins		Do	Do		å	0		ea —	T. Saria	_	Den		Their (makes)	_	Dies	John		N rustica Buatigobilam	N tabacum Bise 92	Naokhol		Toear	Shwetasoko	
		å	Ď	É	ort —	n n		គំ	Do	_	ů	Do		å		ő	Do.	-	N ruetle	N tabac	ņ	_	å	Ω	
		Colmbatore (Ma Iras)	1	Salom (Madras)	Madura (Ma Irae)	m 1-1 themote (Madras)	ichinopoly tomas	Tonovelly (Madras)	- Voltabook	S Kenntn (nightian)	Mirom a Dominsons		Bihar an i Orinia	Farukhal ad (U P)		Situnar (U P)		Itungpur (Bongal)	Dinajpur (Bongal)	Rangt tr (Bengal)		0/1	Mysore State	Henra la (Burma)	

of the normal	periods of soin	A transfinda, har	APPENDIX _concld irresting and marketing of and Burna	id of deflorent types of i	орисса дески ки кир	Statement aboung the normal persons of securs, transections, horrestongrams are aboung of different types of todaces of cours or supportant areas of India and Berness.	,
	Species	Varioty	Sowing	Transplanting	Harvesting	Marketing	,
-		5 6	0 SHIPP				
···	N tabacum Local	Loon	Soft Oct	Nov Dec	Junnay March	April Sept	
	Do	ρ°	å	å	1 ob March	March July	
	N rustica	Coble	Nov Dec	March	May	June Sept	
	N tabac at Local	Local	July August	Sept Oct	Nov Dee	January May	4
z,	North West Ironner Ironnes N rumber	Nations (Kandhari)	Nov Dec	I chruary	June	June August	14
	-		_	_			

ed teheces through the Ports of British India and Durina from hingire and Foreign Countries AI PENDIX XI

		Secreta .	Alm Par	fretured	tobacco (A	rough the A	threed that have fectured tobacco through the Loris of Line						
Imports of	WR MATES	2000								Value in rupos			
	_		_	Quantity:	Quantity in pounds		İ	1	1		-	Other	
Period	1 553	Unmanu factured tobacco	C gare the	29862	Tobacco for paper and	Other sorts of mand factured tobacco	Total	Unmanu factured tobacco	Cigarettes	Clgate	Tobacco for pures and cigarettes	manufue tured tobaceo	Į.
	_			Î				_	1		17 00 0K7	1 65 826	2 13 1-34
1925 ° 5 19 6 27 1927 28	4250	4 009 900 6 703 449 3 584 051 6 710 716	3 411 075 4 174 711 5 55 5 66 4 97 2 083	30 727 33 992 35 973 31 490	276 060 266 670 261 267 217 604	25 52 25 58 32 58 32 58 32 58	8 671 491 10 205 154 9 9,8 615 11 994 572 10 139 610	33 79 762 41 48 045 32 04 052 57 42 301 39 71 621	1 63 81 721 1 04 81 148 2 30 96 319 2 90 90 269 2 13 16 574	2 00 27 1 60 769 2 00 864 1 74 218	10 37 597 15 16 088 17 15 4 15	1 97 110 2 18 023 1 37 251 1 50 940	2 56 10 660 2 71 32 349 2 74 80 5 8 2 69 0 9J0
1979 10	-		0.07 292 0	20000						100	18.05.99	1 73 839	2 61 01 815
ĹŊ	Amount	5 181 574	4 083 510	30 540	245	38 746	10	40 88 549	20149201	0.1	8 90	90	190 0
Average (I'v	Percent	79.9	0 97	03	*	ö	a M					1	000 11 12
1070 31 1031 72 103 33 103 74		1 008 381 2 814 919 6 115 672 4 187 021	3 050 002 1 435 980 831 571 602 996	32 014 21 358 16 030 17 146 3 11 618	189 648 129 433 48 429 50 391 8 81 563	30 762 45 786 40 720 46 981 36 938	4 929 087 4 477 460 6 051 031 4 894 537 3 701 623	14 70 616 29 85 650 6 27 628 47 27 430 33 56 673	12° 48 146 5 77 701 28 94 977 19 05 642 22 21 100	160 546 161 007 185 284 27 52 7	19 88 627 8 61 816 3 1 6 204 3 00 474 3 91 407	2 13 050 1 80 105 2 07 516 1 52 108	151 10 550 94 34 454 96 03 559 72 14 621 61 82 439
1014 35		100 100 7						÷	1	20,000	A 88 221	1 80 526	95 28 183
Average	Anu unt	3 346 609	9 1 300 621	61	8	031 42 033	3 4811 027	30 30 30	51.5				100
_	ler cont	8		+	1	ļ			<u>L</u>	l			
1935 36 1935 37 1931 38*		1 920 692 3 282 045 3 060 686	92 831 412 45 910 099 86 1 084 204	12 12 818 00 13 871 01 22 434	18 50 550 71 57 729 34 69 150	29 43 260 29 33 166 50 40 836	70 2 868 732 76 4 306 810 30 4 267 310	2 27 54 754 0 44 76 720 0 41 45 (79	31 22 401	10 721	3 44,510	1 48 012	84.36.001 84.36.001
		-	-			-Prov	Provisional figures						

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APPENDIX XII
Sources of imports of unmanufactured tobarco into India and Burma

				Impor	Imported from				
Janoal	A	Empire Countries			Ponet	Foreign Countries			
	United Kingdom	Other Emp re Countries	Total Empire Countries	Nether	Egypt	USA	Other Fore on Countres	Total Pore gn Conntries	Grand Total
	£	æ	=	æ	2	æ	e	ē	<u> </u>
					Quantity				
1330 ar	16 507	368	16 912	84 216	8 344	1 484 800	14 109	1 501 409	1 008 381
1931 32	146 507	3 895	150 402	60 526	3 078	2 484 307	156 316	9 094 517	2 844 919
1935 33	340 558	2 50"	352 123	71 397	7 375	4 6.2 527	32 2"0	4 703 549	5 115 672
1033 34	2 021 805	9 221	2 031 026	49 964	2 866	2 091 954	11 214	2 155 998	4 187 024
1111 3,	1 133 070	31 414	1 I64 489	39 510	4 533	1 762 7.7	2 761	181, 561	2 977 050
Average Quantity	733 500	9 490	742 990	50 122	5 279	2 49, 287	43 970	2 603 618	3 346 608
Percent	219	0.3	22 2	1.1	0 2	74.6	13	77 8	100 0

;	1.0	9		16	6	œ.	20	5	ļ	84	0 001	12	120	970	1
	2 6 015	1 000 080	188	14 30 646	°0 85 670	6 27 078	47 7 430	33 ამ 673		37.4			44 76 720	41 45 079	
002.500	3 11 951	1 011 390	128	14 00 517	20 77 316	59 16 162	F08 CF 9	20 40 673		30 28 434	8 08	4 08 638	158	408 3 9	
E01 b	1881	731	Rs.	91 708	16 980	°9 177	18 100	830		48 40	7 -	2	r.	10 7	
	3 000 713	0 98 6 3	a	125776	21 33 191	66 43 631	26 10 679	24 78 409		28 81 338	76)	93 30 711	49 41,531	4 40	
6 758	71017	6 738	Value	19 756	6 187	16 418	0 787	7 740		10 277	6 9	7 676	13 5%	12 03	
44 7	013	39 071	SI.	1 19 527	67 646	1 26 933	61 673	48 154		84 787	61	60 809	34 07	41 407	
10 101	100 001	49 990	N.	13 12.1	3 08 343	4 10 866	720 TO 0º	8 M 000		7 18 793	10 2	3 76 116	1 60 905	91169	
3 768	-	116	2	340	4 300	727.2	1° 510	20 148	_	8 016	0.0	3 242		1036	
355 144	100 001	17 008		32.780	3 03 193	4 08 139	90 15 117	7 03 852		7 10 778	190	3 72 874	1 60 902	48 784	_
20 11 01	96 (14)	1 0 17				1 7 90	13.34	1 43		(Amo nt	Average (1 or out	1016 3	103 37	1373	

1 031 1 11 3 10 2 1 1 13 34 1 43

*Lrow s onel

APPENDIX XIII

Arerge monthly export and a recoil trade by eea through the yours of British Indea and Burma in wimany factured tocacco and principal tobasso products.

the state of the s

			410				
		Cipare	11 579	12,171	7,926	8,675	10,419
		Cigarette	21,638	26,867	23 417	26,141	28,607
	Exports	Unmanu factured tobacco	1,504,479	2 638,101	2,047,271	3,172 441	2,936,759 .
(1934 35) lb)		Manufactured tobacco for pipes and eigs	9,367	7,819	R,174	9,218	7,428
(Avarage for 5 years ending 1934-35) (Quantity in lb.)		Cigare	1,518	1 605	1,594	1,373	932
(Average for	Imports	Oigarettea	105 222	123 918	144 637	103 555	74,101
		Cumanu tacinred tuluoco	186,275	261506	196,108	243 432	316 378
		Month					

April

May June July

7 356	9 108	890 6	D 664	7 478	8 976	11 086	112 402
20 164	24 754	808 01	23 487	20 462	26 599	34 157	206 301
1 707 663	2 202 704	2 050 003	1 618 316	1 450 675	1 631 967	1 702 671	25 969 140
5 200	6 838	8 262	1380	8 606	8 028	0 032	95 930
1 330	1 776	700	2 628	2 000	988	1 222	18 633
24 115	88 100	80 405	103 209	134 672	116 232	108 674	1 305 929
297 151	264 982	212 570	182 204	516 872	306 147	180 577	3 318 462
***							Fotal

Pobruary

March

Navembor Decombor January

Septemt et

October

ALL LIDIN NIV

				Softap	orts of gar	sofingorisel gartles well a and Ir	4 I pur u	e				
						I jort of fre a	for in			 		
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101		- s	=~			5 1°	=	_ 3	, ,	Ē.,	1 - 3 - 5	Tot 1
							i					
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14 041	41) 131	-	- 3	Ξ		<u>_</u>	7	=	3	£	184 160	141 100 1001
1011 3.	11/01		-	- 7 / 2	-	-	-	21.		. 5	1010	0 104 1 435 940
1.13 7.3	•	~	=	=	Ξ	_		Ī	=	=	97 %	531 771
1033 34	124 1/21	×	1 / 1	_	Ξ	ž	74 C	٠	50	5	508.80	7 995
1034.35	700 DC2	£	13.31	E	-	3.6	6111	;	=	1 207	30 00	614 366
Aver ga (Q and ty 11 0 174	110174	704	13 4 0	. 4 9	7 9 9 1 150 188	5.1 6.	1 91	193	19 3 17 9C8	1 693	1.6 53.	1"6 53" 1 306 9 0
(1 roont	28.2	0 3	1 0	٥	403	0.1	1 1	0	-	0 1	0 7	0 0.1

		•	-			-	100	2 707	19.91	1 784	33 808	811 412
9 3101	780 339	000	11 145	• 178	797 544	3		_	2000	° 183	38 813	919 093
2000	8 0 0.7	7	_	333	880 88	- - - - - -	0.010	3	000	1014	4 445	1 081 901
	1 039 017	æ	8	s C18	o (18 1 011 759	(a)	2 2	 	9 22 52			
1937 38		1	1					T				
						Value	_		_		_	
		_		,	å	S.	Rs	17.5	17.8	134	124	E.
	Fa.	Z	173		1	,	2002	801 10 1 000 19	94 108	0.044	3 49 949	3 40 949 10 48 144
1030 31	117 94 174	806.0	2 903	ار 3°3°	1 190 19	200	_	9	91	1.071	37 01	19 77 764
1,91 90	48 1 30		1 26	3840 490	49 0 03	1981	3	2			0 20 549	9 04 977
70 100		-	0	13 164	12 164 96 44 15	9 798	10 00	3 364	49 763	101	72000	
103 31	630716	5			9	11.078	1691	32 423	n u	9 477	ot 60 6	19 00 032
1033 34	16 16 3		7	-	10.00	:	_				110136	061 16 06
1934 3	6 3	~	4 023	13 71	1001	8 200	æ	1 983	3	-		
			1						3	600	70.193	43 46
	70 07	660	18 489	2768	40 3417	111113	33 433	39.87	500 53	5		_
Yr rago le co t						23	0 2	80	6 -	_		0 0 1
		1										_
193 36	20 63 0	31	IC 931	11 008	916 16 96	1 950	983	94 871	74 717	0 005		
1024 37	30 15 510	9. 10		12.311	30 "7 847	1 6 547	7 767	26 789	83 09	7.8°9	1 32 434	_
1037 38*	35 43 495	14	166			7 (a)	3 671	61	47 1 96 800	14 096	1 70 050	37 22 407
	-	-	*1 ove nad	Tan .	-	(a) N	(a) Not a a l ble					

APPENDIX AV Sources of emports of engars end Institute and Burma

					Imported from	from				
2000		Ē	Empire Countries	1		E4	Foreign Countries	otnes		Total
70123	United	Hong kong	Other Frapire Countries	Total Empire Countries	Philip	Germany	lether Jands	Other Fortign Countries	Total Foreign Countries	
				3						
	2	٩	£	2	2	2	2	2	e	2
1030 31	1,721	862	673	3 2 2 6	21,315	338	6 962	1,549	29,258	32 514
1931 32	740	663	1 089	2 328	14 071	285	3,308	1,368	19 030	21,358
1932 33	441	147	8	C82	10 628	341	2 301	1,078	14,348	15,030
1933 34	663	678	980	2,361	9,720	306	2,109	2,650	14,785	17,146
1934 35	909	}	887	1,493	7,485	69	1,761	820	10,125	11,618
Average	841	1,183	2	2,024	12,644	208	3,108	1,491	17,509	19 633
Per cent	n *	9 1		101	54.7	-	15 0		88	100
				-	-	-	1			

	423		
12,871	11,59,546 11,03,067 85,284 73,560	106 9	61,338
12,626	18.25,726 88,178 76,807 60,146 51,176	81,207	50 954 50 954 52,569
980	11. 6,128 8,255 6,723 10,058	7,406	090'6
3,334	Re 38,117 20,597 18,672 19,056 16,293	21,047	18,725
8	Rs 1,920 1,820 2,100 572	1,613	8
9,704 9,619 8,768	11s 83,561 67,523 49,592 31,032 28,925	60,127	32,660 32,229 33,087
1,246	Value Ra 20,820 15,489 8,477 13,423	15,400	9,014
574	Ra. Ra. 2,432 2,021 1,007 746 341 2,473 968	3,045	2,414
} }	18. 4,58		1005
671	11,001 7,300 9,082 6,045	11,766	6,600
::	::		
٠:	: .	Avarage Per cont	1035 36 1030 37 . 1037 38*

			Total				=	189 618	179 177	48 000	ro 91	01 173		11.1.7.1	-	
					_		=	- ×67	116 8	1187	4 739	101		7 401	7 8	
	" 11			- -			=	×	Ξ	=	21	38		80	-	
	11		_	۲			2	-	æ	L	4537	17.5		178	7.7	
IAX 3	*	-						NZ 21	-	17 1	4F ×12	717	1	- 188	81	
ALLI NDIX XVI	, ,	_	π.			Q and y		_		æ	77	τ		ž	~	
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	-			<u> </u>			-		~		£	<u>t-</u>	1		x £	
	O-															
	I		1		-			11.1	1 11 1	10.00	37 7 76	92 11 30	CQ antity	(v rnpn 4	and land	

APPENDIT

Vanibly export and a sport trade in tobacco at stations adjacent to

	-			. 1	MPO	RI					
Months	1930 :	1931	37 1930	33 1933	34 19	34 35	Aver	age 193	5 36 193	36 37	1937-3
Apr 1	8 85	73 93	16 10 2	13 (: 017	686	9:	60 18	836 1	83°	7 12
Мау	11 23	15 9 91	3° 175	16 11 5	76 16	458	13 3	53 15	061 8	9.4	12,829
June	29 30	0 14 25	175	02 193	86 13	234	17 6			257	92 799
July	24 98	5 18,50	4 2 04	4 5 n	- 1	723	15 54		11	336	23 061
August	6 06	6 29	3 17 40	7 83	0 3	755	8.77	1	1	[10 636
September	10 911	5 37	7 14 97	700	1	928	8 03	1		101	4 938
October	8 702	6 34	9.83	7 33	1	19	7 34	1		1	5 6 9 3
November	7 113	12 513	7 51	7 7 17	, ,	75	7 499	1	1	Í	6,349
December	6 190	9 054	6 208	5 776	24		5 938	1	1	-	6.014
January	4 548	8 006	2 718	1 852	22		3 878	5 064	1	1	4.081
February	2 201	6 759	3 708	1 973	2 13		295	3 004	1	1	4 859
March	4 00	6 243	6 914	3 372	9 02	1	5 963	3 645	1 - 50		\$ 969
Total	119 336	112 266	136 574	92 706	70 40]	10	250	116 ps4	99 810	114	472
look A*	7 411	7 739	3 894	3 591	6 467	=	819	8 484	5 438	1	443
lock B*	71 49	76 468	86 717	41 453	21 615	60	148	64 384	63 199	1	085
ock C*	40 430	28 068	45 963	4766*	39 319	49	283	41 096	31 173	41 1	339

^{*}A Block A compr ses the ra Iroute wi ch b furcates into the Nunhk Dundapextens on and the trade Block B compr ses the trade through the Ao h West Front e Frow nee end the I unjeb a th

^{**}O Block C compr ses the trade through the Un ted Prov ness B har and Or see Bengal and Assam.

ALPLNDIX.

Won Ly export and import i. d in th

						,	75.7 2.00	· mpo s		., .
	1				1 1	POP	T .			
ڪ ينو		1	1 3	10> -3	1°33 34.	131	Aren ~	193 ~ &	1263	19-
Δ		=	115	43	£ 1		2.8	_	4.4	€ B
Lav		==	116	*13	→ 5	1,	123			•3
Jane		611	e-	FIE	81*	208	-	9*	01.º	3
ILv	1	4"1	33	-	9.2	253	531	54		2
Angers		3.,	, 11	13	234	8	401	7		2
ektemb	i	43	63	4	2-6	49	115		,	
)-tober	1	6		45	143	14	45			5
Tovemb=T	1	- 1	50	٥	1-	2	5 6			1
person un	ŧ	978	•	110	148	3.0	325			•
	1	-	٤	=	3		13		1*9	15
February		99	23	114	1	1,	11	-6		35
Za-b	(€~<	3 1	20	S	1	~8	1	30	1
Total		2,153	* 453	3.25	4.00	1,620	* 552	1,.6	Lm.l	16
insk D*		11	1,687	1.629	1,50	12.2	.— _[Lina I	I I	.648
tok E*		233	.a.	1 0		60	5-4 [65		
nek F	i	ادی	- 9	320	15	,	352		1	13

Elvit F

*E I D.- 1 E.mad world * Ak E - 1 Index H he and *Shek F - 11 Thinks down, P- Value

APPENDIX XIX

Exports of unwan factured and meaufactured treases through the ports of Bretish India and Burma

		۰	O ant ty (Ib.			ı	Λ	Value (Rs)		
Pertod	Unmana Is tured tobacen	Cgara	C garettes	Other sorts of manufac tured to baceo	Total	Lomanus factured to bacco	C gura	O garettes	Other sorts of menu fact red tobacce	Total
1924 26 1926 27 1926 27 1927 28 1928 39	37 194 250 28 882 936 28 087 969 32 032 102 26 972 707	403 109 250 716 281 508 250 370	144 687 235 050 288 155 284 017 292 910	307 023 384 911 589 183 422 847 523 0 5	38 046 069 29 703 613 29 245 489 33 899 396 27 069 356	105 08 396 97 09 411 98 67 840 12° 61 802 99 48 397	3 68 862 3 30 238 3 0 238 2 85 808 2 08, 724	22 23 23 24 25 25 25 25 25 25 25 25 25 25 25 25 25	99 845 1 37 552 1 55 931 1 29 636 1 16 076	1 11 40 017 1 04 15 226 1 08 13 308 1 28 47 034 1 06 42 057
Average An 'n nt	30 613 745 98 5	303 250	248 976	445403	31 611 384	1 Of J7 169 83 6	317 010	2 49 731	127 618	11151528
1890 31 1931 32 1933 34 1933 34	25 426 632 20 69° 804 29 206 4 0 26,349 287	219 762 117 531 80 947 64 284 70 491	312 087 312 003 261 361 2 7 650 304 603	560 273 404 154 375 536 431 496 652 803	29 092 633 28 261 249 21 622 6 0 29 9 9 900 27 371 084	96 72 548 80 61 26 73 40 521 90 13 004 77 5 255	2 45 664 1 3 780 93 050 85 545 85 545	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1 30 391 82 303 62 634 69 214 98 641	1 03 65,043 85 42 469 77 10 856 93,79 867 81 00 369
Averag { Am unt	25 909 140 98 7	11" 4"3	296 300	481 858	28 862 701	83 69 669	12876	2 51 043	88 629 1 0	68 37 117 100 0
1935 38 1937 38*	28 742 628 28 526 804 35 337 501	73 356 59 623 62,018	328 575 372 111 418 760	453 541 346 770 566 401	29 598 100 29 304 308 30,984 680	87 93 686 87 75 577	101 198 79 513 95 832	2 85 278 3 40 414 4 98 204	61 045 55 292 97 893	92 43 207 32 51 096 116, 28 936

*Prov s ouel,

431 APPENDIX XX

Biotement showing the exports of unmanufactured tobacco from the parts of different Indian provinces and Burma

		1,	navan pro (Qu		ty in lb)					
Year	Bengal	Mac	dras	Bo	mbay	81	od.	В	arma.	7	Fotal.
1925-26	7 533 051	12,	293 294	4	63a 564		34,592	12,	691 74°		193,250
1926-27	2 555 604	13	617 854	4	89° 388		8 896	7	808,204	2	g <u>98</u> 9 936
1927 28	4 664 517	1	074 75		L893 980		41 748	5	412 649	2	8 087 669
1923-29	3 923,296	ì	306 465	١,	631,370		85 240	4	985 31	3	932 103
1929-30	2,988 963	1	4 467 411	ł	4 198 *23		58 960	1	,258,710	1	25 972,767
Average	4,333 084	3 1	3 35* 958	-	\$ 850 40a		45 887		7 031 409		30 613 745
1930-31	4,196 33	2	15 961 59	,	5 176 34	3	47 036	,	2 589 219	1	27 970 510
1931-32	2.846 3	- 1	14,524 91	۰	4,298 6	9	\$0.99	2	3,725 727	'	25 426,632
1932-33	2,587 6	- }	12,281 09	1	4,8 5 20	17	6 57	٥	1 149 316	5	20 89° 804
	2 500 9	- 1	19 850 0	- 1	5 605 8	10	14,39	2	1,235 26	8	29 206 470
1933-34	7 192	_ \	16,3°8,1	- 1	6 0*4,9	12	21 00	ю	1 89 50	3	26,349,287
Average	2 864	769	15,789	169	5,19	196	24,0	»	2 090,00	7	25 969 141
					7 335	759	99	12	93 0	04	28,742,628
1935 36	337	-69	20 0%				30	912	523 1	71	28 525,804
1936-37	1	7 923 9 447	1		719	_	18	101	1 105 9	96	35,937,501
1937-38*			1		•Prov au	rsh	<u> </u>				

APPENDIX XXI

Reported to	Emp 20 Countr es Tour	Group Other Yeal Japen Nedler Delg um Young Other Treat Total Construction Occupies Japen Leads London	(dust ()	the the the the the the the the the	233 337 916 936 140 280 20 1° 8 630 3 840 968 2 341 461 1 022 182 637 279 7 841 880 27 970 510	73, 6,0 2 649 514 157 381 10 150 503 3 699 518 945 339 118 318 512 575 5 275 770 25 426 632	386 221 428 496 147 034 15 203 254 3 144 662 1 866 649 24 188 864 631 5 089 520 20 802 804	511 631 711 840 604 176 21 681 480 3312 988 3 512 446 357 265 332 301 7 624 900 29 206 470	669 089 1 155 913 378 213 [18,780 191 5 808 679 1 129 307 83 325 15778 7 750 006 26 349 287	711 245 1 175,639 283 412 19 100 666 3 978 359 1 977 244 233 055 498 794 0 779 462 25 909 138
	Гонера Сот			a		_	1 866 549		1 420 307	
			=			862 3 699 9	284 3 144 6		191 5 808 6	3 979 3
Krporied to			Quant	_		7 381 10 150	17 034 35 203	H 176 21 G81	18 213 18,780	3 412 19 190
	antr es	Hongkong Em	-	_	_	_	_	_		
	Emp re Cor	Federated Malay States		a	1 233 337	73. 6.0	386 221	611 831		711 245
		Stra ta Sottle meats		e	2 618 072	4 427 350 1 555 399	800 667	1 166 769	1 236 386	1 455 496
	}	Aden and Depend enc en		1p	8 364 496	4 427 350	9 046 489 4 394 177	8 397 696	6 039 537	Q an 10 437 359 5 104 633 1 455 496
		72 6	T	e	9 055 617	10 6"5 5F6	046 489	13 200 068	9 260 063	437 359
		Un ted Kungdon	1		Ф	=	Co.	_==	C 3	. = _

	433			
28 742 628 28 525 804 15 937 501	Rs 96 72 511 80 61 726 73 40 821 90 13 004 77 55 255		3 15 152 81 05 086 8 08 607 87 15 577 5 20 673 100 36 977	-
4 086 697 28 3 850 681 35	Ra 18 70 720 13 61 142 15 62 870 15 64 777 13 70 486	15 53 520		
130 400 0 902 822 2°4 908 4 386 667 174 681 3 860 651	Rs 50 278 1 00 600 2 31 604 1 08 140 40 423	119 038	34 100 37 101 58 048	
7 750 19 030 18 073	11.45.212.28.125.5.785.08.505.10.803	81 708	1 705 3 410 1 550	
1 23 004 1 124 247 1 124 247 1 1 1 1 1 1 1 1 1	Re 2 50 520 1 20 620 3 00 440 4 10 283 1 00 141	2 73 204 3 3	2 01 467 2 08 206 1 05 006	
031 172 1 100 2 5 1 2 100 101 101 101 101 101 101 101 101	78 14 04 200 10 00 782 9 45 951 9 87 789 11 14 058	011 00 110 C E1	0 49 800	
1 749 B 0 5 24 140 °37 3	71 67 221 67 60 684 67 67 642 74 48 227 69 7 67 69	81 4	1 46 662 74 79 634 2 11 652 78 76 970 4 23 597 104 10 304	• Provisional
446 015 1 621 001 24 27 888 881	766 106 7 36 337 45 43 4 1 31 78 4	91 649		-
446 015 4 860 021 001 481 104 1 188 898	Rs 103 605 232 790 78 J83 55 007	1 2	7 30 700 8 240 13 37 814	-
700 183	7.6 4 50 840 3 04 778 1 53 775 1 50 788 2 03 070	2 54 402	4 219707 4 219705 33 2.50343	_
	RA 6 00 C20 6 16 828 5 00 314 3 87 006 3 72 000		5 3.50.540 54 3.40.844 02 4.02.703	_
7 315 462 1		10 65 362	16 35 274 22 24 075 20 85 000 20 46 054 15 27 413 17 69 402	-
11 702 780 7 315 462 1 071 061 11 905 (43 8 776 339 1 112 072 12 231 200 7 182 268 1 202 468	18. 18. 18. 19. 19. 19. 19. 19. 19. 19. 19. 19. 19	34 80 230	1	
1035 36 111 1930 37 111 111 111 111 111 111 111 111 111		Aver Ramo nt	1016 36 1016 37 1017 38*	

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APPFNDIX XXII

Statement showing the exports of cogars from the ports of different Indian Provinces and Burma

(Quantity in lb)

Year	Bengal	Madra*	Bombay	Sind	Burma	Total
1925 26	3 234	75 279	9 363	106	315 127	403,109
1926-27	60	67 141	11 311	28	212 176	290 716
1927 28	142	67 069	7 396	5	206 890	261 502
1928-29	62	66 328	5 490		188 490	260 370
1929 30	30	68 913	€ 028	2 344	203,291	280 604
Avezege	706	68 946	7 917	497	225 195	303 261
1920-31	60	65 878	3 385		150 439	219 762
1931 32	300	43 978	2 592	1616	71 045	117 631
1932 33	7 395	28 472	4,171	12	49 697	89 947
1933-34	595	24 149	2 224	1	37 316	64 284
1934-3	2 967	26 303	3 498		37 723	70 491
Averago	2 263	37 356	3 174	325	69 284	112,403
1935 36	280	18 892	2 653		51 526	73 356
1936 37		19 943	2 483	1 938	35 259	59 623
1937 38*	11	21 630	4 162	.	36,215	62 018

*Prov a cond

APPFINDIX XXIII and Burns atons of exposts of engare from India and Burns

		7	Jestinations.	of exports o	cigate from	Destinations of exports of cigare from interest					
					Exported to						
			-	1			ដ	Poroign Countries	atrit »		Total
_			Lubino	I'mpire Countries			-		Other	Total	
Perfod	United	Aden and Depend oncies	Coylon	Straits Sottle ments	Other Frapire Countries	Total Frapires Countries	fraq	Slam	1 ort ign Countries	Foreign	
						,					
					dumm's	:	-	,	Ė	=	q
		_		:	<u>-</u>	=	â	4	2	2	
	2	q	2	2	: 		0000	183 04	12 544	35 404	210,762
	!		10 447	116 090	1,007	184,268	2 300		_		102 414
1000	45 449	6 6 7 9	_	_	_	200 588	1644	4,092	12 240	17,970	17,001
100001	27.0	2.495	11 855	58 903	22 103	_			2012	0.443	80,047
1031 72	-			010 20	1.840	80 501	3440	20	_	_	
1039.33	20,266	3 000	17.076	` 	_	100	1 163	202	1,614	1,080	61,284
1001	14,133	1 4,769	11,983	3 6312		_		61	2448	6119	70,491
Inc. con	-	4 659	7.084	11 512	3 580	01,772		1	1	100	119 400
1034 35	37,144	_	1	Ţ	0.460	97.479	2 177	6136	7 408	_	11441
(Q.mutity	34 073	3 4,480	=	44,0	•		- 2	4 6	9 9	6 13 3	100 0
Rich Doront	30 3		3.0 11.1	8	2 2 2	1	1		1 053	4 146	73,356
- 1	ļ	6969	10 070	70 8 854	2 336	112,000 34	2,102		3	1	_
1035 36	42.700		_	_	37 2,556	36 63 361	1 2,361		8008	222	_
1036 37	29,164		a cross	_		55.286	3,738	_	2 001	6,732	62,018
1037 38	32,646		4,128 11,260	_	4,033	_	_			-	
	_	-	-		*DrownerOne	onel					

APPENDIX XXIII--concid
Destination of exports of espara from India and Burma

Prompts Committee						Exported to	8					
Property Property	,			Empire Con	ntrics				Foreign C	ountries		
Ro	Гепод	United	Aden and Depend encies	Ceylon	Straits Sottle ments	Other Ea.pre Countries	Total Empue Conntraes	Iraq	Siem	Otner Foreign Countries,	Total Foreign Countries	Total
Re						Value						
1,00,622 6,444 2,04,456 4,705 19,857		Re	Bs	Rs	Rs	Rs	Rs	Rs	Rs	Re	ä	ž
32,250 2,039 13,276 05,299 0,346 1,10,391 2,683 4,612 15,479 1,10,391 2,683 4,612 1,10,391 2,293 2,244 1,10,391 2,293 2,244 2,24	331	64,311	101,6	14 518	1,09,682	6,844	2,04,456	4,703	19,687	16,820	41.210	2.45.666
1,000	32	32,259	2 939	13,276	58,269	3,848	1,10,591	2,668	4,042	15,479	22,189	1.32.780
	33	36,091	6,239	15,046	24,058	3,272	83,736	5,248	822	5.244	11.314	95.050
	34	47,514	6,089	16,320	4,615	1,830	76,367	2,193	292	5.993	8.478	84.845
Amount 45 462 6,018 14,152 46,022 2,172 1,10,297 4,017 4,072 0,400	35	47,126	6,726	11,609	7,958	2,919	76,338	5,276	21	3.916	9.204	85.549
Percent 35 4 4 7 10 9 21 8 2 9 86 7 3 1 3 6 7 4 4 7 4 9 10 9 10 9 10 10 10 10 10 10 10 10 10 10 10 10 10		45 462	810'9	14,103	40,922	3,742	1,10,297	4,017	4.972	9.490	18 479	1 98 776
61,458 8,621 16,623 4,776 3,301 84,689 3,480 3,129 6,0735 9,941 16,582 2,183 8,886 772,797 2,690 3,325 6,183 5,185 4,004 \$86,600 7,689 2,584	-1	35 4	4.7	10.9	31 8	2.9	2 58	3.1	. 02		14.9	001
40,755 9,941 16,982 2,193 3,896 73,797 2,690 3,295 (3,285 4,004 53,690 7,498 2,784 7,498	-36	61,458	8,521	16,533	4,776	3,301	94,589	3,480	3.18		8 609	801 101
48 135 5,225 25,198 2,048 4,004 385,600 7,498	37	40,785	_	16,982	2,193	3,896	73,797	2,690	3.35	ا	6.016	79.813
10.16	.48.	48 135		25,198	2,948	4,094	\$85,600	7,498	oi oi	182	10,282	95,882

VIXX XXIV

		44.4	- Total	Tarke and Bur	nd.			
7	Destinations of	f exports of co	Destinations of exports of esgarcues from the				_	
			Jap	Laported to				
	1	1	Pennire Countries	trios				
Perod	Ceylon	Straits Settlements	1 cderated Malay States	/anzabar and Pemba	Other l'mpire Countries	Fotal Fmptre Countries	Total Foreign Countries	Total
,								
				Quantity.				ž
					ŕ	qı	2	9
	Q	er I	e	2		000	1.188	342,087
		001 500	61 250	5,006	4,138	340,800		900 010
1830 31	180 077		_	7 073	4 300	312,902		312,002
200	121,483	92,993	86,853			944 163	108	264,361
101 00	76.161	76,734	101 506	0,800	2000	_	-	947 656
1032 33			400 00	2 543	1,376	257,554	3	20103
1933 31	140,002				2.245	303,735	108	304,503
1024 35	203,708	8 18 554	11,787		ļ	905 855	444	296,296
-1	145,308	8 62 913	3 79 723	4,621		_	_	0 001
Average		6 10	98 98	91	1.1	0 00	5	
Por cent	40.				1 441	328,493	83	328,575
1036 78	227,000	20 15,300	82,785	ا ^ح	}	_	- 100	372.111
2004	201 507	7.649	19 67,284		6,219	371,689	_	_
1936 37	390.333	_	37 47,406		45,738	418,564	901	418,760
1937 38*			-	-		-		

APPENDIX XXIV—concid
Desira sons of exports of e gardtes from ind a and Burma

	_	Exported to	Exported to	å to					
			Em re Court es	t					
Persod	Crylor	Stra ts Settlements	Pederated Malay St tes	Zanz la and Pemba	Other Fmp c Countr s	Total Fmp ro	Total Jorega Conres	Total	
				Value					
	Re	S.	Ř	Re	å	II.	å	E.	
930 31	1 94 349	58 497	51 747	4 550	5 710	3 14 853	1 502	3 16 445	
931 32	1 19 675	69 401	70 268	5 150	4 100	2 62 584		2 65 594	
932 33	65 536	586 982	82 222	4 650	2 3.8	2 12 291	9	2 12 351	
933 34	1 13 725	31 995	63 156	2 400	1 487	2 12 763	7	2 12 804	
934 35	1 60 498	14 305	72 163	1 750	1 749	2 50 465	292	2 51 022	
Amount	1 30 956	46 418	67 917	3 700	3 200	2 51 191	450	2 51 641	
Per cent	0 29	18 0	27 0	1.5	13	8 66	0 2	100 0	
035 36	1 93 793	10 110	78 078	1 600	1 582	2 85 163	115	2 85 278	
1938 37	2 59 011	7 158	56 746	7 224	2	3 40 149	265	3 40 414	
1937 38*	2 85 644	280 9	47 125	160 170	2	4 98 026	178	4 98 204	

row stoned

439

		Total		£	2	14 331	10 229	8 812	7 416	10,	410.00	70 81	100 0	10 736	9 762	8 711	_
B rma	-	Foreign			2	4 052	4 304	569	2001	2 670	21 631	6 871	38.1	6 472	3 071	4 708	
m Indea and	-	1 mpiro Coi ntrios		, it	e	10.270		oni ei	1179	4 740	18 723	11 183	613	4 264	0 GK3	4 003	
fact red tobacco from		Total		Quantity	=	. ;	5002	2 480	17 646	18 612	4 81	961.0	9	901 1	00 10	067.4	100 /4
APPENDIX XXV fact red fact red 11	77-manufactured Tol acco	Poreign	Countries		_	e e	2 009	2 480		6.411	988	0000	337	31.0	981 19	4 290	361
He exports of unn an	Thema		Countries		_	2			2,0	0	10.201	010	6 753	63 0		440	47 140
	_1,	Period						1930 31	1031 32	1932 33	1033 34	1034 35	(Quantity	Average { Por cont	1001 26	1036 37	1937 38*

1930 31 1972 33 1933 34

1937 38*

APPENDIX XXV-coneld

Re export of unmanufactured and manufactured tobacco from Inita and Burms

Percol Tomeword Learner Tokete			Expor	Exported to			
Empire Forega Total Condities Total Condities Total Condities	Panad		nufactured Tobacco		Manufa	ctured Tobacco	
Rs Rs Rs Rs Rs Rs Rs Rs	20184	Empuro Countries	Foreign	Total	Empire	Poreign Count 1+8	Total
R1 R2 R4 R2 R4 R4 R5 R5 R5 R5 R5 R5				Val	89.		
Account 4.697 4.719 3.601 33.650 22.558 5.601 5.001 5.		R	R*	Re	Re	Rs	Z.
7.183 2.061 2.061 43.649 17.698 2.00			3,541	3 541	33.050	22,558	55,606
15,259	1931-32		2,061	2 061	43,649	17,698	61,347
Aurount 19,266 12,407 3,574 65,220 61,580 11, Aurount 4,687 4,216 8,904 30,301 23,571 Q Pre cont 62-1 4,579 100-0 00-7 33,301 23,571 Q The cont 62-1 4,579 100-0 00-7 33,301 33,571 Q The cont 62-1 4,579 100-0 10,075 33,000	1932 33	5,183		3.183	23 084	6,991	30.075
Amount 4.687 4.216 8.804 36.381 22.571 (1.89 11.) Per ceal 5.21 4.72 100-0 00.7 39.3 10.10. Per ceal 6.32 10.00 10.07 39.3 10.10. 4.00 31.00 10.07 5.00.	1933 34	19,256	12.403	31.659	16,304	9,021	25,325
Aurount 6 687 4 216 6,804 30,301 22,571 6 Pet conf 62-1 47-9 100-0 00-7 39-3 For conf 62-1 47-9 100-0 00-7 39-3 For conf 62-1 47-9 100-0 10-7 39-3 For conf 62-1 47-9 100-0 10,075 31,099 10,000 3			3 074	3,574	65.720	61,589	1,27,309
Per cont 62-1 47-9 100-0 60-7 39-3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Average	4 587	4 216	8,804	36,361	23,571	59,932
100 25 15 0 1 185 16 1 187	Per cent	52-1	6-13	100 40	2.09	39-3	100 -0
			34 581	34,581	16 437	32 001	48,438
31,499 440 31,939 14,980 10,075		450	2 623	8,073	19 685	16.144	35,829
	1937 38*	31,499	440	31,939	14,980	10.075	25,055

APPENDIX XXVI

Annual net available supplies of all types of tobacco in India

		4	P	PEN.	אנט	1					In	āva		
Annual net	av	ailabl	e eu	pplu	s of c	all i lb	typ 1	es of	tobe	acco 114				
	_		_	1932		_	33-3		_	1-35.		35-36	1936	37
	19	31-32-	1	1932-	<u></u>			-				29 228	134	6,240
Green production*	,	°27 53	۱.	12"	320	1:	300	920	-113	53,600				
Net production* available for consumption and ex- port after allowing 90% for driage and waste in magnifacture		982,0	16	101	7 856	,	1044	-36	9	22,880	1	143 382	107	6,992
Imports— By sea from foreign coun	1		809		8 -39			6 461		6,152		4,303	_	6 617
tres	1	_	_	+	4,18	+		671	8	2 27		1 872		3,510
By sea from Burma		-	451	╁		+		7 63	ا۔ ، ہ	5 "9	1	9 6*	5	8 915
Byland		<u>L</u>	23	9	11 24	-		20 8	_ -	14 21	-	15 80)1	17 442
Total		,	7 49	"	24,1	62	 	20 0	-		-		+	
Exports and Re-export By sea to foreign co			22 4		*0 +	1 62	1	28,7	 21	25 6	09	28,5	1	28 763
tries		-		+	04 10,		ا_ ا	12	I 801	13 5	49	13 5	182	15,461
By sea to Burma		15		504	911 92		-,-	 8	773	9	104	9	03	9 230
By land		_	11 011						-90		967 51		906	53 454
Total	2		48	,994	4	1,81	6 I			-	-42	36	100	35,012
Excess of exports over	TU	B .	3	1 495	2	06:	,a 		488	-	2,69		38,	10 6 99*
Production available	fo		95	g= 016	10	178	o6		4,"30	+-	9 13	-	797	1040 980
Net supply available	E fo	-	9	50 5°	9	97 2	10°	١_	15 24	^	6		1	2 9
eonsumption. Net supply available capita in lb	le p			2 8	1	2 9		<u> </u>		1	bos	of the	prece	ding Jent 1
	_			on E	ntions	d.	guil	st ea	ch 3	gr ale				

[&]quot;The ristature of productions mentioned against each year are those of the preceding year is order to correlate them with export and respect figures."

APPENDIX XXVII

Annual net available supplies of all types of tobaccos in Burma. (Thousand lb.)

	_	{Thou	sand lb)			
•	1931 32	1932 33	1933 34	1934 25	1935 36	1936 37
Gross pronet on*	109 760	87 360	87 360	100 800	100 980	03 040
het product on ava lable for consumpt on and ex port after all owing 20 /c for drage and waste in manufactu e	87 808	£9 888	69 888	80 640	80 784	82 432
Imports—			_	 	_	
By sea from fore gn country es	97	61	72	141	220	101
By sea from Ind a	15 504	15 122	12 801	13 249	13 582	15 461
By land	203	275	332	118	95	125
Total	15 804	15 458	13 205	13 508	13,897	15,687
Exports and Re exports-				-	 	
By sea to fore gn coun tres	3 810	1 193	1 273	1 821	1 045	560
By sea to Ind a	2 451	4 183	6716	2 271	1 872	3 610
By land	186	79	121	176	308	430
Total	6 447	5 455	8 110	4 268	3 225	4 600
Excess of mports over ex parts	9 357	10 003	5 095	9 240	10 672	11 087
roduct on available for consumption.	87 80s	69 888	69 888	80 640	80 784	82 432
Vet supply ava lable for consumpt on	97 165	79 881	74 983	89 880	91 456	93,519
capita n lb	8 6	60	5 6	6.6	6.6	6 7
et annuly and						

The stat at cs of product on ment oned aga not such year are those of the preceding year is order to correlate them with export and support figures

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	products.		orpite			2 997		•	_		•	1 1 1 0	-	1 182		T	1	9		
	All tobacce products.		Q rantify	1	07.047.508	153 312 620	77.71	14 976 234		47 0 10 275		2 3063 810	1 656	0 4 412 000	_		302 1 010 201 308	410 86871007	-	į
	1 roducts		per capita			2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 440	0 710		930	'	33		_	150	7	61	9	-	
34 35	Other tobasso 1 roducts		Quantity	<u>.</u>		20, 27 6 802	105 828 766 46 267 020	11 411 200	0.0000	15 967 312	48 412 715	9 278 378	3 008 358	_	8 705 530		8 35 060 130	0 C CT0 280	_	nail
GI as as	۲	t		Nos	t	_	8		_	Ž	•	_	288	_	3 23		197	670	_	a pas soo
"Harm		1	I or eapita	æ	Ì	0 002	181	0 477	0 179		•	_	0 000	_	0 008	_	101 0	+		and to be
APPENDIX XXVIII	Betmated consumption of tobacco products in true		_	Quantity Ib	-	240 880	4 805 400	8 010 140	2870000	10 205 100				0 1001100	271 (92		1	1	547 0 479 908	finds and and and and
ENDEX	npoud so		all all	ا ا		Ŀ			_	_	۰۰,					000	4	200	5	:
VL	of tobac	pleroof	Percapita		A		0 0 0	0 014	0 000	_	000		50.	۰	_ '	9 9 1	9	•	0 000	
	опзитецо	Cigara and elected		Q tantify		1	008 760	3.8 000	00 270		18 040	20 418	51 250	_	_	20 6.0	_	20 89 480 898	13 062 000	non tron
	smated o		\dagger	1	Nos	1		225	_	_	28		_	28		55		2 200	121	ton laurent the consumption
	E.	1		Percapita	2		0 125	000	0 118	0 04	0.028	0		100		0 107		-	c	l -temonii
			Olganom	Onsuttty	e		1 120 706	2 741 508	2 214 008	701 674	1 372 434	1 120 162	072.377	281 676	1312 00	718 485	1 967 1	20 010 378	1 731 840	!
				Province or State				Assett	It har and Orline	Control Province and	Ilvras	N W P	l unjab	Unite I Provinces	Niram a Bominios a	Keshmir	Trannoore	Otl or areas	Ind a	

No second has I on tal as of it sestimandy small quart by of manufactured pape and out bolustoc consumed in it ecountry Norse—Oti or tobacco products comprise of manufactured key ink and chowing tobaccos and snail . Reares nisneglig blo consumption

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(In million Ib)

						4	**									
	1037	-		61	7	90	13	-		6		205	1	650		200
	1936		:	= =	3 5	9 :	18	-	1	3		, si	٥	219	1	7
	1935		2	3 5	2 *	- :	3 '	-	1		400	701	,	202	S S S	Š
	1934		9	: =	. "	. 5	3 .	-	48		ş		•	101	086	
	1933		13	10	31	9	٠	•	40		100	***		162	211	
(qpu	1932		0	22	=	=	۰ ۱	1	8\$		198	**		127	17.6	
(al million ib)	1831		٥	=	9	•		•	=		191	"		160	101	_
1	1928		10	23	٠	2	en	•	2		172	"		176	218	_
	1025		8	1-	69	-	-		19		103	7		170	189	
	1023		-	1-	-		-		=		101	10		27.1	185	
	1919		4	c			-		Ξ		310	19		133	349	
	Countries	Amy we Countries-	Bettsh In ha	Nypanjand	Cann in	Rhol sa	Othera] tu]	foretth country	Unite ! States	Others	Ē	Total	Total Imports	

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APPFINDIX XXX.

	1017.	14,703 8,801 746 14,148 12,176 284 075	192,120	8 131,145 0 182,306
	1936,	11,506 8,788 074 11,202 12,256 778	45,588	
	1975,	9,811 8,433 083 9,057 12,105 408	12,001	18,998
ed Kragdom	1034,	0,507 7,772 778 0,276 12,173 442 873	40 545	117,815
en the Unit mptlon)	1933	9,487 8,974 1,061 8,602 11,977 468	40 8H0	149,110
ured tobacco homo consu of 1b.)	1032	6,280 6,720 987 7,884 10 915 454	970 Nt	11,249
ign annanyfactured to from bond for homo (Tr. thousands of Ib.)	1631	9,125 4,867 800 6,251 10,497 057	12 78.2	117 061
Consequence on Borreyn winnersyfactured tobacco on the United Kongolom. (Dollverk of from board for home conversifution) (To the memorie of Ib.)	Connty of origin	Pritch Traits Caracla Northern Bloadenia Southern Rho Ireis Nysealand Britcha North Borneo Other Trajite sountries	Tofal Taplite Countries	Farels,n countries « Tetal

Average monthly wholesale prices of flue cured Vergrass engarette tobacco at Guntur APPENDIX XXXI

	,	1		_	× × ×											
	=	M	l a	2,0	38	8	16 6	13 3								
1935	Firm II	Max	2	20 0	30 0	30 0	21 6	0 02								
-	7	Min	ž				110									
	Firm I	Мах	ž				13 3									
	H	Man	. W	0 %		16 6	8	9 9								
	Firm II	Max	ž	26 0		21 0	9	000								
1934	_	Nm	2	•	3	÷	13 55	9							_	•
	Firm I	Max	2	9	9	8	81	92								•
	H	M P	2		9		9	13 3				8 3				•
	FrmII	Men	2		22 0		8	21 6				16 6				
1933	_	Man	å	9 9	9		9	1 8	8 0	9	0 9	8	33	8	8	•
	Fire I	Mex	å	7.0	0		19 0	0 0	•	80	0 3	0	•	7	0 9	•
	Firm II	M n	2													•
	Fire	Max	å									_				
1932	-	Min	a		0 0	14 0	14 0	16 6	10 0	0 0	0 9	0 9	6	0 9	9	
	Frail	Mex	ā	110	2	21 0	21 0	20 0	12 6	8.3	0 0	11 6	0 8	8 0	9 9	
	1931 Average		a	8	6	11 6	16 0	11 0	10 3	8	0.	12 0	16 0	10 0	13 0	
	Months			January	February	March	April	May	June	July	Angust	September	October	November	December	

APPENDIX XXXIII

A ag outh! I lead price of raw camiry (Natus) tobacco at Guntur.

								9	E .	(Per maund)				i						ļ				
			1032					-	3					1938						1035				
Mootiv	ð	Carry sh	Qual ty	£≈	lou I to	-	Qual ty	<u>5</u>	Qual ty	- 3	Qual ty		Quality	Quality		Qual to		3	<i>\$</i>	Qual 1		ono I	Quality III	
	vsM	gny	7 ald	1 1/	xeq.	P R	xalf	zal/	1 D M	zoM	" " T	zelá	m _{IV}	zsl/	Ana	zej,	u p.	Mex	a pr	xeg.	u IV	xelé	T.	
•	Ą	ä	å	×	ž	-2	- FE	8 8	-			Š.	ž.	e ²	- E	2	22	£	2	ž	ā.	2	Å	
In unry	3	9 87	=	3	3 5	4 9		-	- 49	್ತಿ	0 14 0	_		5 0 5	2	- 0	10			80	0	9	÷	_
Fet roary	14.0	13 0	11 6	6 3	7 8	9 9	_	-	2 6 6	9	0 *					-	_		_					
Marob			_					_				_			_		_	-					_	
April						_	_	- 6	- 9	- =	5 0				_	_	_	13 3	10 0	10 0	2	7 6	8	_
May						_		=	9	9	0 2 0		_	10	0 9	0	0	13 3	00	00	10	5	0	
Jn e	13 3	12 5	2	60	89	9 9	_	•		8	20	_		9 9	0 4	0		13 3	0 0	20 0	en en	80	2	
July				_		_	_												•				_	
August	13 3	12 5	10 0	8	1 0	0 0								9	9		m		_					
September	_		11 0	8	83	0.0	_	- 0		- 6	10		_	6	6 0 0	-				10 0	8	10 0	7.8	
C etober			2	9 0	0	0				01	9	_								9 3		8 0	10	
November		_	63	3 6	8	0.0		9		0 # 0	و و و	_	_						_				_	
December		_	•	0 63	2 2	0 9	-	-	- "	3 4 6	2 5	_	_	9	0 0	0	m			80	9 9	7 5	0.0	_
		ĺ	1			1	Ì				-						_							

APPFADIX XXXV

Armore mertilly prices of eiger and elevont tobaccus in West Goddwari (Per maurd)

Yz.ls.	1931	1932	1933	1934	1935	Average
	Es a P	Rs a P	Rs A P	RSAP	Rs A P	Rs. A. P
JANUARY	23 5 10	28 12 9	23 5 10	11 8 4	15 10 1	20 9 1
February	23 0 10	29 1° 9	10 11 2	11 8 4	15 2 3	17 15 0
March	23 5 10	24 3 0	10 11 2	9 0 10	15 4 10	16 9 11
Appl	23 3 5	23 13 9	lo 10 1	12 5 6	15 15 5	17 15 0
3.27	20 3 10	20 8 1	14 5 1	12 5 6	17 4 5	17 15 0
Jere	1 00 3 10	ి 8 1	12 ə 6	13 7 11	18 1 8	17 15 0
July	20 3 10	25 10 6	11 8 4	15 10 1	18 1 8	18 6 11
Augur	23 % 0	2 2 3	11 8 4	17 4 5	19 14 7	19 9 4
Se-tember	21 14 2	2" 2 5	11 8 4	17 4 5	20 9 1	19 11 11
040,42	21 14 2	- 2 5	11 8 4	17 4 5	20 14 4	19 11 11
\oranber	26 13 2	28 10 9	9 0 10	17 4 5	20 1 2	20 6 6
December	7° 8	±> 1° 0	11 8 4	17 4 5	26 15 10	22 6 1
				1	1	

APPENDIX TAXVI

Arerage wholesale prices of therost tobacco at Coconada market Earn Laulas (First quality)

	В	aru Laulas (Per:	mund)			
Months	1933	1934	1935	1936	Average	1937
January February March April May June July August September	20 6	23 14 0 21 3 0 20 6 0 20 3 0 24 8 0 24 6 0 24 6 0 24 1	19 12 0 19 12 0 22 8 0 0 24 0	20 14 0 0 28 0 0 0 24 0 0 22 6 0 22 6 0	21 12 0 23 4 0 22 10 0 22 10 0 22 3 0 22 4 0 21 8	22 6 0 27 0 0
October November December	19 12 21 2 21 2	0 24 11 0 24 14 0 23 8	0 19 3	0 22 0	0 21 15	0 1

APPENDIX XXXVII

Prices of tobacco at Burishat Farm (Rangpur) (Prices from the local sale of the farm proceeds

ices from	the	local	sale	of	the	farm	ртосеев
		(Per	man	nd)		

Year	Suma (a)	tra	Suma (b)	tra	Suma (c)	ira	Mami	lla.	Penz vani			55	Bhe	agı	Moti	
	Ra		Ra		Rs		Ra		Ps		Rs		Ra	A	Rs	À
1924 25	120	0	100	0	50	0	80	0	89	0	80	0	10	0	10	0
19°5 26	120	0	80	0	40	0	50	θ	50	0	40	0	14	0	14	0
1926 27	120	0	80	0	90	9	58	0	50	0	40	0	13	0	12	0
1927 28	120	0	50	0	80	0	50	0	50	0	50	0	18	0	20	0
1928 99	120	0	80	0	40	0	50	0	50	0	50	0	35	0	Not gro	wn fail
1929 30	120	0	80	3	40	0	50	0	50	0	50	0	lə	0	12	0
1930 31	100	0	80	0	40	0	50	0	50	0	50	0	5	8	5	0
1931 32	50	0	30	0	20	0	15	0	15	0	15	0	8	0	8	0
1932-33	35	0	20	0	15	0	10	0	10	0	10	0	10	0	10	0
1933 34	15	0	15	0	10	0	10	U	10	0	10	0	11	0	9	0
1934-35	1		l		l		ĺ						8	9	Į	
1935 36	15	0	15	0	10	0	10	0	10	0			8	13	n	8
1936 37	i		i				-				۱ ه	0	10	10	ĺ	

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APPENDIX XXX III

Average monthly wholesale prices of Poola (Common) at Calcutta

(Per mund)

kan da	1930	1931	193	(933	1934	1935	1936	1937
	Eas	P .	Rs a	R ₀	Ra a	Ro a	Pa a	Rs. a.
January	37 0	8 0	6 12	10 0	68	6 0	6 B	9.0
P trusty	16 0		61	10 0	6 8	7 01	60	8 0
March	15 0	7 0	61	9 6		0	7 0	7 0
April	16 0	9 0	61	9 8	0	ø	80	8 0
May	15 0	10 6	6 Lo	9 8	0	0 (7 8	8 8
June	25 0	10 8	0	9 8	6 8	0	7 8	5 8
Jaly	25 0	6 8	4,	9 8	6 8	0	8 0	7 10
Atrust	16 0	8 8	8 0	98,	6 8	6 8	8 0	12
September	1 0,	6 8	80'	9.8	60	B 8	9 0	
October	13 0	6.8	8 0	98	6 0	6 8	9 0	
havemler	2 0	6 8	801	9 8	6 0	8 0	8 8	
December	ø	6 12	8 9	9 8	6 0	8 0	8 0	

APPENDIA AVXIX
Monthly prices of tobucco (J 4a) at Fingrie (Fengal)
flow rivers)

						Z	(ler mul)	1																
Months		1032 33	83			=	1633 31				1971 35	8				1935 38	8			[1036 37	8		
	å		128	-	ž] ~	Ka A		1 4		Ē	1 82	2	Ra A		78.7	-	1 2	١.	1	l š	1 -	
prol	8	\$	5	-	2	٠	ء	9	_	9	٤	2	۰	10	æ	٥	2	•	=		9	2	0	
Iny	0	\$	œ	۰	2	٠	ء	9		9	2	2	0	0	0	ತಿ	0	•	0	0	\$	2		
enne	0	٤	œ	•	2		ء	15 1.		•	٥	2	۰	e	0				0		2	2		*
uly	9	٥	20	•	0	٠	2	2		0 0	٥	2	•	7	4	2	9		2	0				J#
ngust	0	\$	œ	0	0	٠	2	2	_	0	٤	2	•	۰	0	٥	8	_	=	c				
cptember	10 0	2	23	-	10	٠	ء	9	_	8	٤	2	0	9	c,	\$	•	•	=	0				
ctober	0 0	ç	13	0	2		ء	15 0		8	2	ន	۰	0	e,	\$	•	0	Ξ	0				
orember	0 0	9	22	0	2	۰	2	11 0		8	2	Ξ	8	0	•	2	~	-	Ξ	0				
occurber	00	2	2	0	=		2	16 0	_	8 9	\$	2	80	9	٥	\$	æ	0	Ξ	0				
Anuary .	5	\$	81	•	9		to T	10		8	\$	2	0	9	ø	2	93	0	::	0	•			
Uruary	22 0	2	13	•	9	۰	2	16 0		8 9	٤	Ξ	•	2	9	9	2	4	Ξ	0				
larch	10 0	2	13	•	8	•	2	92		0 13	\$	9	•	Ξ	0	೭	16	•	=	0				

APPENDIX XL

decays monthy wholents prices of average quality of locally produced caper and cheroot tobacces in Heneada, Thajet njo and Pakoldu (Burma) (Por maund)

poor nubblaired by 11 o Commissioner of Scillements and J and Records in the Burian Gazette)

		Her	Henrada				F	Thayetrayo				-	P kokl u		
Months	1031 33	1932 33	1652 33 1053 34 1031 35	7021 33	1035 38	zı udi	1032.33	1672 33 1632 35 1632-36 (1631 52) 1632 33 1653 34	1931 33	1035-30	1031 33	1932 33	1633 34	1034 35 1935 76	1035 76
	3	=	2	2	2	1	2	2	2	2	2	Ē	Ē	ž.	ā
7	9		3,3	100	~				9	0 9	1 6	3.8	23	5	4.6
	0.5	;	82	3.0	3.0				9	**	3.4	3 7	63	30	4 0
92	5 6	0 7	7.7	2.8	-				60	8 0	3.4	9	3.1	;	ž
l _y	3 2	•	4	2.3	**					0 9	3.4	61	9	20	8
gust	1.8	4.5	8.0	9 2	2 2	3.4		8		4.9	80	~ «	9	4 0	9
11 1011		*	2 5	**	13	4.0	6	4 3	5 7	**	10	64	9	9	3.3
etober	20	4.3	3 3	2.4	2.7	10	20	0.4	5.7	40	10	91	0	0.8	3 6
ovember	23	*	4 5	2 0	10	6.0		9.6		9	#C)	64	9	60	3 6
ocen ber	2.7	10	00	20	3 6	9.7		10		8 0	9	2	4 0	9 6	3 6
trent	3.1	3.7	3.4	2	12	9 7		93		9	‡	3 4	¢1	9.7	3 0
bring	10.7	E 20	2.0	33	3.0	9.7		2 2	0.0	5.9	3 9	5	0 9	0.7	20
noth	3.4		7	*	9			8 20	20	6,	9	60 4	61	0 0	

APPENDIX XLI

Weekly scholesale prices of imported Jats (Eengal) tobacco in Pangoon in 1935-36 (Per maued)

Mont	hs	3 wetchoon	Green String	Kabya	Shwetanok,
	_	Pa	Rs	Ps	Ra
April	1 2 3 4	13 4 31 4 11 4 31 4	10 5 10 3 10 4 10 4	12 I 12 I 12 5 12 5	20 5 20 5 20 5 20 5
May	1 2 3 4	11 4 11 9 11 6 11 6	10 4 10 7 10 ~ 10 9	12 5 12 5 12 5 1° 5	20 5 21 0 21 1 21 1
Jun	1 2 3 4	11 3 12 1 11 9	11 4 11 4 11 2 10 9	12 5 12 5 10 1 12	21 ± 21 1 21 1 21 0
July	1 2	11 9	10 9	12 *	21 0
	3	11 9 11 9	10 7 10 8	12 3 1° 1	21 1 91 1
August	1 2 3 4	12 0 11 9 11 9	10 8 10 7 10 5	12 1 12 2 12 1	21 1 20 5 20 7
September	1 2 3 4	11 4 11 6 12 3 12 5	11 1 11 4 12 0 12 3	12 3 12 5 13 0 13 1	20 20 0 20 5 20 5
October	1 2 3 4	13 13 1 13 0 12 8	12 3 12 3 12 3 12 1	13 5 13 1 13 1 13 7	21 1 20 8 20 5 20 5 20 5
November	1 2 3 4	12 8 12 8 13 1 13 0	12 1 12 1 12 1 12 2	13 1 13 1 13 1 14 3	20 5 20 5 20 5 20 5 20 5
December	1 2 3	12 8	12 1	13 7	20 5
	3	13.6	12 1	13 7	20 0
January	1 2 3 4	14 8 14 3 16 9	12 6 12 0 11 9	13 7 13 7 14 3 13 7	20 5 20 5 90 Q 20 5

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APPENDIX XII—con.Jd

(Per maund)

Mor	the	Ywetchoon	Green String	Kabya	Shwetasoke
		R	Ra	Rs	Rs
February	1 2 3 4	Table 1	11 6 11 6 11 8	13 7 13 7 13 8 14 0	19 4 19 4 19 4 19 4
March	1 2 3 4	20 19	12 5 12 5 1 5 3	14 3 14 3 13 7 14 3	19 4 19 4 19 4 19 4

Average monthly prices of I at bids tolacco powder in the Charotar area of Bombay Augrat APPENDIX XLII

	1000	1	Ы							(Per	(Per mannd)	P										
Year	January Tehrnary March		Pebra	gra	Ma	qu qu		Αprol		Ma	May	-	Jazie	<u>-</u>	July	August	August September October November December	October	Nove	прет	Dec.	an a
	Fis A P	-	2	A	E E	1	2	1		2	h	1 4	1	2	-	E A	RS & T RS & P RS & 1 RS & T FS & F RS & F RS & T RS	Ils A	2	:	ě	;
9001	14 5 7	-	*	2 (15 8 8	2	8	=	11 13						_					2	13 13 13 35 3	2	
1027	17 4	3 13	3 6	10	14 13	8	13 10	9	0					_					_	:	=	
10"8	13 11 2 13 14		3 14	0	0 13 8	13	=	13 11 9 11		1	9	_		_							:	
1020	12 7 10 13 8 10 12 11	-	8	91	12	•	٥	0	=	12 15	-	_		_					-	6	«	-
1030	10 7 1 8 10 8 6 11 4 7 2	_	8 10	40	9	7	-		_		2 0 7		6 11 10						_			-
1001	11 8-11 11 12 3 11 13 3 11 0	=	12	- -	12	-	=			0 to	-	-	0 0	_	_				30			
1032	*		22	8 12 6 8	40	٥	**		-			10	5 11 3	9	02 9							
1033	13 2 10 11 4 2 0 3 10	=	4	~	0	2		8 11 2		8	0	_	6 14 1		•				•			
1034	13 6 7 11 6 0 11 2 9	=	9	-	=	6	10 13	6	-	9	-6							•	` =			
1936	11 8 11 9 10 6 0 1 2 8 13 4	_	07 0	9	0	61	6	5		7 3	6	23	4	10	49				:			:
Average	12 10 4 11 7 2 11 1 10	Ξ	-	-	=	2	10	63	20	Ξ	8 11 2		6 5 10	6 13	61			0 13 1 11 1 10 11 2	=	92	=	23

APPENDIX XLIII

Average monthly prices of Lilvo bids tobacco powder in the Charotar area of Bombay

Year	Tanuary	Pehruary	March.	April	May	June.	July	August	September October		November Docember	Docember
	Rs 4 r	Rs & c	Rs A P	Rs 4 r	Rs A P	B 4 r	Rs A T	Rs A P	Rs. A. F.	Rs A v	Ro A P	1 4 8 E
9.41	15 0 0	14 9 0	13 11 11	11 0 9	13 3 5							10 3
1007	17 0 0	17 2 6	17 7 7	18 10 2	7	7 18 0 2	16 7 0					
1028	10 0 1	14 14 7	16 13 0	13 2 5								17 0 0
10.0	15 2 0	0 15 12 0	10 4 11	13 10 9	12 6 6		13 0 1				5	
1030	11 10 10	10 7 0	6 11 6	11 10 10	7 13 3			00	11 7 51		٠,	: :
1001	10 12 1	1 11 5 11	0 12 10	10 7 9	14 8 6			•	}		. ;	• :
1032	0 0 0	0 8 12 G	7 15 6	9 6			:				2 :	7 :
1033	10 6 0	0 0 0 0	7 6 7	0 0			•				7 7 0	2
1031	13 13 3	3 12 2 4	11 2 0	6		: :	-			0 14 0		
1035	•	11 0 8			:	\$:					
Ачетадо	13 1 8	8 IZ 0 G	12 0 6	12 6 1	12 0 8	14 0 1	1 0	2	6 0 13 4 11	0 14 0	10 14 1	12 13 6
				٠								

APPI NOIX XLIV
Average annual prices of bids tobacco at 8 mgh marlet

					(Per mannd)	Ç.						
	Mary	Mitji tobacca powder	wder	Pandbar	Pandbarpurt tobacco powder	powder	Other typ	Other type of tobacco powder (Tarda)	powder	Mupt Po	Mirji Pondia (Bundles)	9
, see	Bost.	Medien	Pour	Best	Medium	Poor		×	Post	Bost.	Mediam	Poor
	Re. A ?	Re. A P Rs A P	Es A P	Bs & P	13 A 7	To A P	RS A P RS A P RS A P RS A P RS A P RS A P RS A P RS A P	Its A P	Es A W	By A P	H. P.	1 2
1839 31	9 2 10	8 6 9		17 9 10	4 15 3 17 9 10 12 1 9	8 8 8	12 13 6 11 0 2	11 0 2	9 14 7			
1931 32	8 6	10 01 10	4 12 4 23	23 6 2	16 8 3		10 16 4 15 10 11 11 0 2 19 4 5	11 0 2	10 4 5			
1932 33	15 0 0	12 13 6	ea 	23 22	18 5 7	12 13 6	22 12 1 18 5 7 12 13 6 16 5 3 14 10 11 13 9 3 11 0 2	14 10 11	13 9 3	20 2	9 2 10	7 8 8
1933 34	13 3 6	6 12 11	40	15 14 1	15 14 1 12 1 9		8 1 2 15 6 7 14 10 11 13 15 2	14 10 11	13 15 2	8 12 11	7 5 5	5 14 0
1034 38	13 15 2	2 11 9 2		15 5 7	7 11 4 15 5 7 12 13 8	8 13 11	5 12 11 18 5 7 14 10 11 13 15 2	14 10 11	13 15 2	8 13 11	7 65	5 14 9
1935 35	11 9 2	9 2 10		5 14 0 15 5 7	12 13 6	7 5 5	16 5 3 14 19 11	11 10 11		11 0 2	0 2 10	10
1926 37	12 13 5	5 11 0 2	8 1 2 16 6	16 6 3	p 2 10		7 5 5 18 5 7 14 19 11	14 10 11		° 0 ≈	9 2 10	

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APPENDIX XLV

Daily prices of bids Jarda (pouder) at Jayasingpur in 1935 (Per maund)

	Febr	ruary	Mar	ch	Apri	d,
Dates	alaximum	Minimum	Maximum	Minimum	Maximum	Minimum
	Rs A, P	Rsar	Raar	Rs A P	Rsar	Rs A P
1 2 3 4	16 8 6 16 8 6 15 12 S	7 11 5 6 15 8 6 9 9	14 5 2 16 14 4 18 8 6 16 14 4	6 9 9 6 15 8 6 9 9	12 7 10 12 13 8 13 15 4	5 14 0 5 8 2 5 14 0
5 8 7 8	19 1 7 19 5 10 18 11 9 17 4 3	7 5 7 6 15 8 6 9 9 8 9 9	15 6 10 6 15 6 10 18 8 6		13 3 7 13 15 4 13 3 7 12 13 8	0 14 0 6 3 11 6 3 11 5 14 0
10 11 12	17 4 3 18 11 9 17 10 1 16 8 8 ;	8 9 9 7 11 5 7 11 5 7 5 7	19 13 4 18 11 9 16 8 6 16 8 8	7 11 5 7 5 7 7 5 7 6 9 9 1	13 3 7 14 5 2 15 0 11 13 3 7	5 14 0 6 3 11 5 14 0 5 14 0
13 14 15 18	17 10 1 16 8 6 17 10 1 16 8 6	7 11 5 7 11 5 7 11 5 7 5 7	16 8 8 16 14 4 16 14 4 15 6 10		14 5 2 13 3 7 13 3 7 15 0 11	8 3 11 5 14 0 5 8 2 5 14 0
17 18 19 20	16 14 4 10 0 11 17 10 1 16 8 6	7115	16 14 4 13 15 4 14 5 2 15 0 11	7 5 7	13 15 4 13 3 7 13 3 7 14 5 2	5 14 0 6 3 11 6 3 11 6 3 11
21 22 23 24	16 8 6 16 8 6 16 14 4 16 14 4	7 5 7 1	13 3 7 16 14 4 16 8 6	6 9 9	13 3 7 13 3 7 13 3 7 13 3 7 12 13 8 1	6 9 9 6 9 9 6 9 9 6 3 11
25 26 27 28	17 10 1 14 11 1 14 5 2 15 6 10	- 5 7 7 5 7 6 9 9 6 6 9 9	13 15 4 13 3 7 14 5 2 15 0 11	6 4 9]	13 3 7	6 3 11 5 14 0 6 3 11 5 14 0
29 30 31		1.1	13 lo 4 15 0 11 13 3 7		3 3 7 2 7 10	6 3 11 5 8 2

APPENDIX XLVI Perces of bids Jarda (powder) at Jayasingpur (Per mannd)

Dates	Maximum	Minimum
16th January 1935	Rs a p 16 14 4	Rs a p 7 5 7
24th January 1935	19 1 7	9 2 11
31st January 1935	16 8 6	7 11 8
ond February 1935	16 8 6	6 15 8
10th February 1933	18 11 9	7 11 5
18th February 1933	15 0 11	7 11 5
26th February 1935	14 12 1	7 5 7
28th February 1935	15 & 10	6 9 9
2nd March 1035	16 14 4	6 15 8
10th March 1935	18 11 9	7 5 7
18th March 1935	13 15 4	7 5 7
26th March 1935	13 3 7	6 3 11
31st March 1935	13 3 7	6 3 11
1st April 1935	12 7 10	5 14 O
9th April 1935	12 1 11	5 14 0
18th April 1935	13 3 7	8 3 11
26th April 1935	11 12 1	6 3 11

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APPENDIX XLVI-cond

Prices of bids Jarda (powder) at Jayasingpur (Per manad)

Dates	Махітит.	Миницип
30th April 1935	Rs 4. P	Rs A P 5 14 0
lst May 1935	11 12 1	5 8 2
9th May 193 ₉	12 7 10	5 2 3
19th May 1935	12 1 11	4 12 5
26th May 1935	11 12 1	5 8 2
30th May 1935	12 I 11	5 14 0
28th October 193o	13 15 4	7 5 7
3rd November 1935	13 15 4	7 5 7
10th November 1930	18 0 0	10 4 7
18th \ovember 1935	17 10 0	9 8 10
25th November 1935	16 14 4	6 9 9
30th November 1935	15 0 11	5 14 0
Ist December 1935	13 15 4	5 14 0
8th December 1935	13 15 4	699
15th December 1935	15 0 11	6 3 11
24th December 1935	14 5 2	6 9 9
31st December 1935	13 15 4	699
LUCAB		

APPEN Average wholesale monthly prices of different

(Per

					- 0
Year	Type of tobacco	January	February	March.	April
1931	Locally grown sords (chewing and bolt tobacco) Locally grown den smoking tobacco (superior)	Ra a. P	Rs. A F	Esar	Rs A. p
1999	Locally grown sards (cheming and but tobacco) Locally grown den smoking to bacco (superior)	7 5 0 11 5 0	5 11 0 5 13 0	8 13 0 7 15 0	5 11 6 11 7 6
1933	Locally grown sards (chewing and but tobacce) Locally grown doss smoking to bacce (superior)	7 14 0 10 15 0	5 6 0 11 8 0	5 10 6 8 3 6	6 11 0 7 12 0
1934	Locally grown zarda (chewing and bids tobacee) Locally grown dos smoking to baceo (superior)	6 6 0	8 5 0	}	7 11 0 11 12 0
1935	Locally grown zarks (chewing and bids tchacoo) Locally grown dees smoking to bacco (super or)	10 0 0 14 13 0	10 5 0		

DIX XLVII

classes of tobacco in Hyderabad (Dn)

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APPENDIA LLVIII

Statement showing the average weekly prices of locally grown (sarda) tobacco in Hyderabad (Dn) market (used for b di and chewing)

(1934 3a)

(Per maund)

Date	I Quality	I1 Quality	III Quality	IV Quality	V Quality
	Rs . F	Rs A P	Rs A P	Rs A P	Rs A F
6th April 1934	ì	9 6 10	7 5 0	486	Ï
13th April 1934	1		6 13 8	4 2 8	
21st April 1934			6 12 4		
27th April 1934	-	9 6 10	6 11 4		
4th May 1934		9 3 11	7 7 2		
11th May 1934		{	7 15 3		
18th May 1934			7 1 4	4 14 4	
25th May 1934		9 11 2	7 7 0	4 0 10	
lst June 1934		10 0 5	7 4 3	5 12 0	
8th June 1934		10 4 8	6 8 0		
15th June 1934	!	9 14 11		5 12 0	
22nd June 1934		10 13 4	7 9 4	5 6 8	
13th July 1034			7 3 5		3 3 9
20th July 1934		10 2 5	7 4 5		
27th August 1934			7 2 5	5 1 4	
21st September 1934			610	4 12 2	
12th October 1934			680	4 14 1	3 3 8
19th October 1934	13 5 6	983		590	3 3 8
26th October 1934	12 14 9		6 12 0	4 4 11	
2nd Vovember 1934	1	,	801	1 6 6 4	3 3 3
9th November 1934			7 4 8		
16th November 1934	13 7 4	10 6 11	6 7 7		
23rd November 1934	12 7 9	10 14 11	7 6 7	5 2 1	
30th November 1934	13 7 2	10 5 3	7 6 0	4 14 3	
7th December 1934	12 9 8	974	7 9 0		

APPENDIX VLVIII-contd

Statement showing the average weekly prices of locally grown (zarda) tobacco in Hyderabad (Dn) warlet (weed for bids and chewny) (1934 35)

		maund)			
Date	I Quahty	II Quality	II1 Quality	IV Quality	V Quality
	Rs A P	Rs a. P	Rs A. P	Rt A F	Rs A. P
14th December 1934	13 0 4	10 7 9	7 1 7		
21st December 1934	12 5 6	10 4 10	7 10 0	- 1	
28th December 1934	13 9 0	9 3 -	6 15 2	1	
3rd January 1930	12 11 7	10 6 2	6 8 7	5 12 11	
11th January 1935	i i	9 13 11	7 5 4	- 1	
18th January 1935	i	10 2 7	7 8 7	5 1 3	3 9 11
20th January 1935	i i	10 0 10	8 2 8	-	
8th February 1935	14 7 9	10 2 4	7 8 0	4 14 3	
loth February 1935	1	9 6 9	7 12 8	4 5 7	
⁹ 2nd February 1935	12 4 10	11 9 6	9 6 9		
lat March 193o	13 0 0	11 0 5	8 10 8	5 12 0	
8th March 193o	14 11 6	10 13 4	7 15 0	5 12 5	
15th March 1935	1:	10 4 1	7 6 5	5 6 8	
22nd March 1935	- 1	0 4 8	7 10 4	5 6 8	
29th March 1935	13 10 6 1	10	7 12 3	5 12 5	
5th April 1935	1, 6 8 1	0 3 -	7 6 0	5 19 0 :	9 5
12th Ap 1 1930	13 0 9	9 15 5	714 6		14 1
19th April 1935	1º 6 a 1	0 6 11	7 5 6 4	7 3 a	2 8
26th April 1930	12 1 3 1	0 12 8	15 10 5	12 1	
3rd May 1935	13 6 10	9 15 1 1	8 1 7		
10th May 1935	10		7 2 8		
17th May 1935	- 1	9 13 3 7		12 0 0	14 2
24th May 1930	10 10	1	15 2	16	
31*t 33av 1435	13 8 9 10	1		0 8	
7th June 1935	13 3 - 10	0 8 8	9 5	1	

APPENDIX XLVIII-concld.

Statement showing the average weekly prices of locally grown (zarda) tobacco in Hyderabad (Dn) market (used for bids and cheving)

(1934-35) (Per maund)

Date	I Quahty	II Quality	III Quality	IV Quality	V Quality
	Rs A P	Rs A F	Rs A P	Rs A P	Rs A P
14th June 1935		10 9 4	7 15 5		
21st June 1935	11 15 10	10 5 4	7 11 11	5 0 8	
°8th June 1935	12 2 5	9 15 2	7 13 8		
5th July 1935	14 4 0	9 19 7	7 7 9		
12th July 1935	12 2 9	9 15 4	7 11 0		
19th July 1935	1	10 6 2	7 13 5		
26th July 1935		9 13 1	7 13 5		
2nd August 1935	12 8 9	9 5 4	770		3 9 2
9th August 1935		9 4 9	7 12 3	5 5 10	
16th August 1935	ł	911 8	7 6 3	4 4 8	3 0 1
23rd August 1935	12 2 6	9 4 9	6 15 6		
30th August 1935		11 1 4	7 12 0	5 0 1	
6th September 1935	i	9 13 2	7 9 6		
10th September 1935		9 11 7	7 11 0	5 12 1	
20th September 1935	15 0 3	9 14 5	7 0 0		
4th October 1935	12 8 4	9 14 2	8 0 9	4 13 2	

APPENDIX XLIX

Average monthly wholesale prices of Maishan hookah tobacco at Paigram, Jalpangun district Bengal

			(Perm	-				•	•
	Months	1928	1929	1930	1931	1932	1933	1934	1935
January		Rs	Rs	Ra	Rs	Rs	Rs	Rs	Ra

Months	1928	1929	1930	1931	1932	1933	1934	193:
January	Rs	Rs	Rs 18	Rs	Rs	Rs	Rs	Ra

Months	1928	1929	1930	1931	1932	1933	1934	193
	Rs	Rs	Rs	Re	Rs	Rs	Rs	Ra
January	38	22	18	17	17	17	12	6
February	36	20	17	17	17	17	10	7

						1932	1933	1934	193
		Rs	Rs	Rs	Re	Rs	Rs	Rs	Ra
January		38	22	18	17	17	17	12	6
February	- 1	36	20	17	17	17	17	10	7
Manak									

	_				L	1		l
	Rs	Rs	Rs	Rs	Rs	Rs	Rs	Ra
January	38	22	18	17	17	17	12	6
February	36	20	17	17	17	17	10	7
March	30	19	16	16	16	16	10	7
April	20	18	16	16	15	15	8	7
Vay	22	16	15	15	12	12	8	6
June	24	16	lo	15	10	10	7	6

July

August September

October

November

December

				1	1	1		1
	Rs	Rs	Rs	Re	Rs	Rs	Rs	Ra
January	38	22	18	17	17	17	12	- e
February	36	20	17	17	17	17	10	,
March	30	19	16	16	16	16	10	,
April	20	18	16	16	15	15	8	,
Vay	22	16	15	15	12	12	8	6
June	24	16	la	15	10	10	7	

Fortmobile average wholesals prices of Jata and Metakan tobacco (as Face quality) in Cooch Behar State APPENDIX L.

		_	_	_	_								
-	Pertod	1927	1928	1929	1930	1931	1926 1926	1933	1934	1035	1936	1937	
	lst fortnight 2nd fortnight	1ks A 21 3	789 A 16 11 21 4	Rs A 31 6 32 7	Es A 23 13 23 13	88 A 8 10 8 9	y s21 0 6	Rs ▲ 13 13 13 4	Rs A 11 1	Be ↑ 8 1 8 7	138 ★ 8 1 8 3	18s A 10 6 10 8	
	lat fortnight 2nd fortnight	21 6	20 7	32 11	23 E3 10	61 61	9 1	1 2 4	11 6 11 6	7 0 7 14	7 7 14 14	10 8	47
:	let forengåt 2nd fortnight	21 7	20 00 20 00 20 00	32 11	5 5 4 51	9 9	8 16	21 21 21 33	11 13	7 0 7	F F	10 8	U
-	lat fortnight 2nd fortnight	20 7	20 4	28 0 27 I3	13 9	8 4	8 14	8 01	10 15	6 1 6 11	6 11	. :	
	lat fortught 2nd fortught	18 6	23 23 6 4	31 10	12 1	- 4	8 1	11 01 11	10 3 9 12	5 12	6 12	· .	

Jaho	1st fortnight 2nd fortnight	18 13	24 1 22 10	28 28	9 16	= =	8 11	12 10	8 11	7 8	8 1 5 13	: :
July	lst fortnight 2nd fortnight	× 55	22 9	1 28 1	8 11	 0 _	8 16 6 11	14 5	7 12	7 13	6 3	. :
August	= ± '	11 21		* = = = = = = = = = = = = = = = = = = =		5 14	9 12	13 6	7 14	7 12 7 11	8 8	: -
Polite nil er	int fortnight 2mi fortnight	6 RI	83 B	2 2 2	to 11	e e	1 11	12 D	SC 17 SC SC	7 12 7 10	0 5	
Ox tober	let frenght Ind fortnight	16 7	23 6 23 15	ئ ئ 1	10 7	0 0	11 1	12 12	8 8	7 12	0 0t	: :
November	lst fortnight 2n I fortnight	17 1	38 7	ឌ ង	E 29	12 0	10 13	12 13	8 8 13	7 1	10 6 11 0	: .
December	Int fortnight 2ml fortnight	18 2	32 32 32	25 0 15 0 15 0	9 10	2 2	11 16	11 3	8 8	8 8 8	10 2	

APPENDIX LI

danua harvest prices of raw tobacco in the three important tobacco producing districts of North Bihar

annua harvest prices of rasp to	of North Bilar (Per maund)		·
Year	Mozaffarpur	Darbhanga	Purnes
	Rs A P	Rs A P	Rs & P
1912 13	18 13 0	10 0 0	900
1913 14	17 8 0	7 3 0	8 0 0
1914 15	21 4 0	8 5 0	6 0 0
1915 16	20 0 0	8 0 0	600
1916 17	15 0 0	9 3 0	680
1917 18	18 0 0	10 10 0	6 8 0
1918 19	23 12 0	13 8 0	680
1919 20	27 9 0	11 8 0	800
1920 21	26 4 0	14 8 0	600
1921 22	40 0 0	14 0 0	800
1922 23	40 0 0	11 13 0	12 0 0
1928 24	20 0 0	15 8 0	10 0 0
1924 25	23 5 0	15 11 0	16 0 0
1925 26	20 0 0	11 11 0	800
1926 27	17 5 0	12 4 0	8 8 0
1927 28	18 11 0	12 7 0	9 0 0
1928 29	17 5 0	12 8 0	14 0 0
1929 30	15 10 0	19 5 0	13 0 0
1930 31	12 0 0	13 13 0	500
1931 32	13 11 0	9 4 0	980
1932 33	17 5 0	8 5 0	5 12 0
1933 34	10 11 0	9 13 0	4 8 0
1934 35	14 8 0	7 15 0	3 12 0
1 135 36	13 11 0	9 11 0	3 0 0
1936 37	16 8 0	13 11 0	4 12 0

APPENDIX LII

Average monthly wholesale prices at Caumpore of Farruthabads Kampilla tobbaco

								1)	er	mau	nd										_
Months	'	931		1	1932	•		1933	ì.	!	193	Ŀ	,	193	5.		1936	t.	,	193:	,
	Ra		P	Ra	•	,	Ra		P.	Rs	_	,	Rs		. ,	Re	1.	,	Ra.		,
Januar y	8	4	0	8	10	7	8	4	0	8	4	0				9	1	2	9	7	9
February	8	10	7	9	14	4	8	10	7	9	1	2	11	2	2	9	7	9	9	7	0
March	. 8	10	7	9	14	4				9	7	9				9	7	9	9	7	9
Aprıl	9	7	9	9	7	9	9	1	2	6	9	7	8	4	0	В	10	7	7	13	6
May	10	11	7	8	4	0	9	7	9				10	è	11	8	4	0			
June	11	2	2	8	4	0	1	0 4	11				10	4	11	6	10	7			
July	11	2	2	7	6	9							9	1	2	7	13	4		••	
August	11	2	2	8	4	0	7	6	9				9	1	2	9	1	2		••	
September	9	14	4	8	4	0							9	1	2	9	7	9			
October	9	7	9	8	10	7	8	4	0	9	-	9	9	7	9	9	1	2			
November	9	1	2	8	10	7	8	10	7	9	14	4	9	7	9	8	10	7			
December	10	11	7	8	10	7	8	10	7	10	4	11	9	è	7	9	1	2			

APPENDIX LIT

Average monthly wholvede green (at Caumport) of Poords (se Dess) tobazed imported from Backhor Dyer and Sareth in Bihar

(Per manuel).

prid 'May J so July August September October November December	1 2 104 1) 11 2 2 11 2 2 11 8 9 11 2 2 11 15 4 1 11 15 4	1 2 104 11 11 2 2 11 8 9 11 2 2 11 2 2 10 11 7 11 15 4 11 8 9	6 9 713 4 715 4 9 1 2 9 1 2 9 1 2 9 1 2 9 16 4 9 7 9	Na 4 8 4 6 7 6 9 7 6 9 7 6 9 8 4 6 7 6 2 7 6 8	11 7 7 6 9 7 6 9 7 6 9 6 9 7 7 6 9 7 0 2 6 9 7 6 9 7	0 2 6 12 4 6 12 4 6 6 9 5 12 4 6 9 7 6 12 4	69 769 769 697 697 697 697	69 769 769 697 630 630 697 697	3
	4 11	69	69	6. 9	0	8	6 4	6 4	
Jaly	R3 A	=	•	. 6	1 6	6 12		1 6	9
J po	R 11	=	1 2	0 4	7 6	5 12	7 6	9	2 4
(fay		10 4	7 13	*	2 6	22	7 6	2 6	2.2
April	Bs 4		1 6	11 6	10 11	1 0	9	9	
March	Els + P	**	80 10	10 11 7	10 11 7	7 6 9	6 9 4	7 8 9	5 12 4
February	R. A. 7	7 6 9	6 9 7	11 2 2	16 11 7	9 1 2	1 6 9	7 0 2	4 12 4
Jan uary	7 8 9 T	1 6 6	5 12 4	11 2 2	10 4 11	* *	7 6 9	7 0 %	5 12 4
	Bachhor	Dyer	Saresh	Bachhor	Dyer	Sarrah	Bachhor	. Dyer	Carnet
Year	}	183			1932			1933	

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APPENDIX

Average monthly wholesale prices of hookah tobaccoo

{Per

	_					_			Fer	ozep	one	M	rket								_
Months	19	30-	31	193	11-2	12	19	32.	13	19	33.	11	19	34 :	3.5	19;	35-2	36	19:	36	37
	E		,	Ra		,	R		r	Ra		r	F.s	_	,	Pa.	_	,	Ra		. ,
Apr.1	10	0	0	8	14	3	8	0	0	5	9	9	6	15	3	10	0	0	8	0	(
May	10	0	0	10	0	0	8	0	0	5	9	9	6	15	3	10	0	0	8	0	(
June	16	0	0	10	0	0	8	0	0	6	6	6	6	4	0	10	0	0	8	0	(
July	6	10	9	10	0	0	8	0	0	6	6	6	6	15	3	7	8	0	8	0	(
August	8	0	0	8	0	0	5	15	0	6	2	6	6	0	6	7	0	0	8	0	(
September	. 8	0	0	8	0	θ	5	15	0	6	4	0	8	6	9	8	0	0	8	0	c
October	, 8	0	0	, 8	0	0	5	15	0	5	9	9	10	0	0	8	0	0	8	0	¢
November	۱ ,	0	0	8	θ	0	6	15	θ	5	9	9	10	0	0	8	0	0	8	0	0
December	8	0	0	8	0	0	5	15	0	5	9	9	10	0	0	8	0	0	8	0	0
January	a	0	0	8	0	0	5	15	0	6	6	6	10	0	0	8	0	0	9	8	0
February	8	0	0	8	0	0	5	15	0	6	6		10	0	0	8	0	0	10	0	0
March	1 8	0	0	1 8	0	0	5			t .			10	0	0	8		0	10	0	

LIV
at Ferozepus and Lyallpus in the Punjab.
maund.).

		L	alipur Market	·		
1930-31.	1931-32	1932 33	1933-34	1934-35	1935-36	1936-87
Bs. a. P	Re. s. P	Pa a P	Ra a P	Rs. A. F	Ra a. r	Bs. a. r
10 0 0	10 0 0	10 0 0	900	8 0 0	9 12 0	8 0 0
10 0 0	10 0 0	10 0 0	9 0 0	~ e 0	8 12 0	8 0 0
10 0 0	10 0 0	10 0 0	9 0 0	8 0 0	9 0 0	7 8 0
10 0 0	10 0 0	10 0 0	9 6 0	7 4 0	10 0 0	7 4 0
10 0 0	10 0 0	900	9 0 0 1	7 2 0	9 8 0	8 0 0
10 0 0	10 0 0	900	800	7 0 0	9 2 0	~ 0 6
10 0 0	10 0 0	200	900	8 0 0	8 12 0	6 0 0
10 0 0	10 0 0	900	800	7 8 0	8 4 0	o 0 0
10 0 0	10 0 0	900	800	10 0 0	8 4 0 1	a 0 0
10 0 0	10 0 0	9 0 0	800		9 0 0	5 0 0
10 0 0	10 0 0	9 0 0	800		9 2 0	5 0 0
10 n c	10 0 0	900	800	- 1	8 12 0	5 0 0

APPENDIX

Average monthly wholesale prices of

(Per

		_				n	urba	n T	obado	-00			_			L	_	CPP	abua.		_
Vonth	19	31-	32	193	2 :	33	193	13-3	1	193	43	5	192	15-3	18	19:	31-2	2	193	12-5	13
	Re	۸.	r	R.s	٨,	ř	Rs	٨.	r	Rs	. 4.	P	Ra		7	Ra		,	Ra	_	r
Aprıl	1			11	0	0	9	8	0	7	0	0	9	0	0				4	8	0
Мау	1			11	0	0	9	0	0	7	0	0	8	ō	0				4	8	0
June	1			10	8	0	8	8	0	8	0	0	10	0	0	}			4	0	0
July				¥1	8	0	5	0	0	5	0	0	11	В	0				4	0	0
August				u	8	0	8	0	0	8	0	0	14	0	0				3	8	0
September				11	0	0	1	8	0	9	5	0	15	5	0				3	8	0
October	15	0	0	11	0	0	7	0	0	10	0	0	13	0	0	5	12	0	8	8	0
November	14	ō	0	10	0	0	6	8	0	11	8	0	12	0	0	5	12	0	3	0	0
December	14	0	0	10	0	0	5	12	0	12	0	0	22	0	0	5	12	0	3	0	0
January	13	0	0	10	0	0	8	8	0	15	0	0	7	8	0	5	12	0	5	0	0
February	12	8	0	10	0	0	5	8	0	14	0	0	7	0	0	5	12	0	3	0	0
March	11	o	0	9	5	0	5	12	0	11	0	0	7	0	0		0	0		12	0

LV

whencing tobacco at Bark in North Bikar
mound.)

Tobacco.				Denji To	battoo		
1933-34	1934-35	1935-36	1931-32	1932-33.	1933-34	1934-35.	1935-36
Re A P	Re. 4. 7	Ra a P	Ba A. F	Rear	Da A P	Rear	Re a. r
2 12 0	2 8 0	400		180	0 10 0	0 10 6	170
280	2 8 0	4 3 0	1	180	0 10 0	0 11 0	1 3 0
280	2 12 0	480		180	0 9 0	120	1 0 0
[200	2 12 0	4 12 0	ĺ	3 4 0	0 9 0	180	1 2 0
2 4 0	3 4 0	4 12 0	i .	180	0 9 0	1 12 0	1 2 0
2 4 0	4 4 0	8 8 0		1 6 0	080	1120	0 15 0
2 4 0	4 4 0	480	2 4 9	0 14 0	0 8 0	200	0 14 0
200	800	3 12 0	2 2 0	0 14 0	080	1120	0 13 0
200	800	3 8 0	114 0	0 12 0	0 8 0	1 12 0	0 12 0
200	4 4 0	2 12 0	1 14 0	0 2 0	0 9 0	180	0 12 0
220	380	2 8 0	1 12 0	0 11 0	5 9 0	1 8 0	0 11 0
2 4 0	3 12 0	3 12 0	160	0 11 0	0 10 8	1 2 0	0 12 0

480

Average monthly wholesate prices of cheunap tobaccos at Palghat market APPENDIX LVI

								(Per	E I	(Permand)		- 1		- 1			- {	1		- 1	- 1		- 1					
		{	We.	Meenampalyam No I Quality	pe.	1	.0	- Ta	Pag.			'					D.	ilan j	bet 1	٩	Udumalpet No I Quality	fitty	, !					
Month	1932 33	eg .	1930	1933 34	<u> </u>	1934 35	10	_ <u>≅</u>	1036 36		193	1936 37		1932	1932 33		933	1933 34		1934 35	10	#	1935 36	98	=	1936 37	5	,
	Rs A	-	_ £	Bs A P	2	1 1	*	_ 2	Rs A P		2	Rs A y		2	Rs & 7	_	1	Bs ↑ v		Rs A P	-	R _s	•	*	Rs	1 1	-	
April	33	•	42 12	0	5	61	0	33 74	2	•	=	4		23	9		1 12	0 1	2	19 12	0	23	0	0		24 10	9	
May	38 10	•	37 14		98		•	3	a	•	33	6		19 13		-	19 12	0	2	•	0	8	0	0	83	9	•	_
June	39 8	•	33	8	98	2	•	3	10	-	33	•		E	٥	-	19	0	8	•	•	12	9	-0	- 22	-	0	
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August	35 14	0	36	5	0 33		0 9		34 14	•	20		-61	2	9	- -	18	Q 81		18 16	•	12	9	0	- 22	9	0	
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Areroge monthly ukolesale prices of smuff tokaces at Mangalere market

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May	27 15 0	0 28	7	•	26	-	~	23	8	-	19 2	•	20	2	•	8	9	0	2	10	0	12	2	0	14 11	=	0
June	27 15 0	0 26		0	28	,	-	23	8	-	18 12	۰	৪	6	0	28	•	0	23	=	•	11	2	0	14 11	=	0
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November	29 6	0 27	3	0	28	-	÷	23	8	-	18 6	۰	8	6	•	1	9	•	8	-	0	17	2	•	13	10	6
December	28 11 (0 28	8 7	•	28	7	÷	23		-	18 6	•	8	0	•	17	2	0	61 61	-	0	11	2	0	13	10	•
January	27 15	-0	28 7	2	88	-	÷	23	8	-	38	9	ន	0	0	17	2	٥	22	-	0	11	2	0	13	10	9
February	27 15	-	28	0	26	2	-	53		-	18	9	ន	0	۰	17	2	•	23	-	0	17	9	۰	13	ю	
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TRAPERIDIX I VIII

Avernge	Assenge monthly green of I and tabates (two blasts as if I a high class bads) at Rows of rea Mysors State (Poe ma d)	e of I sads	и приссо (т	ned for an	(Perma d)	h class bid	u) at Ras	nd ren A	Hysore St.	e e		
Months	10%	1926	1927	1028	1929	1930	1931	7,61	1013	1934	1935	1030
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jan rž	=	3	83	6	2	97	9	12	7			
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	_	_									_	

APPENDIX LIX Aurige markst clarges per Ro 100 worth of rate tobacco (For solve su rullness)

			Gantur	tur						
toms of charges	Bengal	Charotar	Virginia	Country (Natu)	North Bihar	4 0	Punjab	Delhi	Burma	
Payable by seller	Rs A w	Rs A F	Rs A P	Rs A F	R8 A F	RS A F	RS A P RS A P	Rs A P	Rs A r	
Handhag										
Weighing					61					
Сомпьянов			9 0	6		•				101
Brokerage				•						
Charity ete			6							
Allowances in weight	9	7 16 0								
Discount			•	•		> N	0 0			
Mangon or Present	0 0 8							0 0 7		
Terminal Tollor Octros charges										
Miscellancous										
E	- -	- }								
Total	9	14 9 0	9 9 8	4 12 6	0 13 9	2 11 0	0 8 0	8 8 0		

APPENDIX LIX-contd

	Aserone	morbet char	nee ner Re	Average market channes are He 100 worth of can believe	ean tobacco					
		(For	(For sales in villages)	lages)					٠	
			Gunțar						<u> </u> _	i
Items of charges	North Bengal	Charotar	Virginia	Country (Natu)	North Bihar	u v	Punjah	Доди	Burma,	ď.
	Re A P	Rs A P	Rs A P	Rs A P	Re A 1	Rs A P	Re A P	Re A P	R8 A. F	=
Payable by buyer— Welching										
Commission	2 0	0 8 0			- ×		•	0 22 0		٠
Brokerage							•	:	:	
Labh or allowance to Datat					0	-				
Charity		0 3 0						_	•	
Miscellancous										
									_	1
Total	0 8	0 10 0			1 21 1		61 20	2 12 0	1 3	62
Grand Total	7 12 0	15 3 0	80	0 61 4	0 01 6	1 0	3) ;	.	
	-	_				0 11 7	2 11 6	2 11 6 11 4 0	7	m

APPENDIX LX. Average market charges per Re 100 worth of ran tobaseo

		- 1	ı,		- 1	(For sales in markets)	ske s	Ē	arke	ŝ	- 1														
					8	Gontur												_						1	
Lems of charges	Nipani	_	Var	Virginia	_	Country (Natu)	1979		North Biber (8 markets)	North Biher market	3	- E	U P narket	U P (3 marketa)	Punjab (6 marketa)	atk	, ŧ	Hyderabad (6 marketa)	9 9	ket ket	.=	Burma (2 marketa)	H Sa	3	
Payable by seller—	Rs A	F	£	◄	h .	2	١.	l A	2	-	-	ž	◀	fi.	å	1	^	₽ 2	1.	L	h	2	1-	1 4	
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Weighing			_	က	۰	•	69	-	۰	84	63						en		0	10	•				4
Commission	1 3	0	-	9	0	64	10	-	01	es	•	-	*	4								-	•	•	80
Broketage												۰	=======================================			_				•	,	•		•	
Charity eto	0	64	۰	61	•	۰	-	•	۰	8	•	٠	۰		•	٠			•		-				
Allowances in weight	•	0	61	4	0	61	*	•	•	9	•	-	- 2						•		,				
Discount	1 8	0							•			٠					•								
Mangon or Present			_								_	•	•				•								
Terminal Toll or Octros charges	-	9	_					_					00	۰		K.	0		•						
Miscellaneous			•	0	8	•	N	4	۰	•	80								,						
Total	10 9	9 10	-	0	4	'n	-	0	"	100	2 10		8	ю			-	ļ	1.	10	10	1.	19	1	
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APPENDIX LX—2011d
wrage market charges per Rs 100 worth of raw tol ac

ges per as 100 mons alos in mari ets 1	9	
Trees contribes per tos (I or raios in mari	9	
Trees contribes per tos (I or raios in mari	WORL A	_
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1937	and a	MAZO!
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	marke	

		Ü	(I or sales in mari ets)	ota)					
		Gantur	in.						
froms of charg a	Nipani	Virginia	Country (Natu)	North Bil er (8 markets)	U P (3 markets)	U P Punjab (3 markets) (9 markets)	Ilydorabad (0 markote)	Burms (2 markets)	
	Re A P RS A F	R3 & F	Rs A P	Rs A F	Rs A P Rs A F Rs A F	Rs A P BS A P	Ba A P	Re A P	
Payable by buy r-									
Weghng				0 1 0					
Comm ss n	0 1 0			2 0 0		1 10 3		8 8 0	
Brol crago						1 10 3			
I at h or allowance to Dalat	1 4 0								
C! arity	0 1 6			0 1 1					
Miscellancous		_		8 0 0					
[otal	1 12 6			2 8 9		3 4 6		8 8 0	
Gran l Total	12 6 4	4 0 4	5 7 8	5 14 7	8 2 5	10 11 7	2 12 6	8 8 8	

APPENDIX

Certain physical and chemical characteristics of cured

		1	s	ize
Туре	Colour	Texture	Lergt	h. Breadth.
4 -N Tabacum		 -	-	
I Cigarette-				
L luginia due cured— (a) Guntur	Bright lemon to reddin	h Fancesiky and fol to thin	12 to 18	
(b) Mysore	Bright lemon to green	Fine silky to thin and papery	10° to 18	4" to 12
() Saharanpur	Bright lemon to reddis	Finesilky and full to thin	12" to 18	
(d) Satera	Yellow to light brown		9" to 15	5" to 10"
2 Country cun-cured— Guntur L—Cigar—	Light to dark brown	fine Medium and pliable	10° to 18°	
(a) Madras	Light to dark brown	Thin to medium and		
(b) Bengal	Brownish yellow to greenish and derk brown.	plable Thin	10° to 22°	5" to 9"
III.—Cheroot— (a) Bengal	Brownish yellow with dark spots and pat- ches greenish and dark brown	Moderate	10° to 22°	5° to 12°
(b) Madras	Dark brown to almost	Thus to medium	12° to 30°	3" to 12"
(e) Burma IV —Bula—	Greenish brown to derk	This to medium and	15" to 30"	6° to 12"
(a) Gejerati	Greenish to 12 3	Thick but not opare	12" to 15"	5° to 9"
(b) Nipani	brown in colour with characteristic brown spots Golden yellow to orange and light brown some- times with charac- teristics brown spots		12° to 18°	6" to 9"
(c) Mysors	Yellowish brown	Medium	Above 15*	3" to 6"
V & VI Hookah chew ing and must B N Bustica	Light to dark brown	Medium to thick and slightly coarse	10° to 24° and over	3° to 12°
VII & VIII.—Hookah chewing and snuff— (a) Bengal	Greensch brown		10° to 15°	6° to 12"
(b) U P Punjab and V W F P	Greensch brown	wrinkled Medium to thick and	6° to 12°	3" to 6"
DL-R.J.		60szsn		and over
Nipani Pandharpuri	Light to dark brown	Thick and slightly coarse	Over 12°	6" to 9"

ш kinco leaf produced in India and Burma

I mol	eaf ;	produc	ed 11	Ind	a and	Burn	.a			- <u>-</u> i			San	d		_
	jest.	ne			1		Asi	·		_					Me	
Yermo	- N	omini	m. 1	Mean.	Maxu	aum.	Mini	um.	Mest		Maxi	mum	Min	mum.	Me	
2	1		16	%		% 16 66		% 3 87		% %		°, 0 58		°°° 0 27		% 43
	96		60	21	1	13 31	,	1 44	15	61		1 26		0 70	1	. 00
	2 07		62	1.0	07	16 4		12 96	1	4 67		3 30		0 90	l	1 ⁸⁸ 0 33
	2 45		1 56	2	13	18 0	٥	14 12	1	6 55	1	0 39	1	0 28	1	0 54
	3 00		1 38	2	04	19 5	6	17 3		18 4	1	16	1	1 10		1 41
	3 44	1	0 65	1 -	20 13	22 (1	18 S	1	16 ⁹		3 4	ı	g 81		3 12
	3 49		2 8		3 82	19	76	15	13	17	20	8 (02	0.99	5	3 43
	5		4 :	95	4 75	18	88	15	ı	17		10	66	8 8 0 7		9 73 1 73
	3	· 1	1		2 79	-	64	17	- {	19	91		86	0 6	57	2 66
		78		30	3 13		3 81		00	18	60	1	69	e :	27	1 07
		01					14 99	1:	02		00		92	0 3	- 1	1 93 5 43
		5 53 6 18		1 63	4 93 3 14		22 48	v	6 18	1	g 97	,	•			
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		7 39		4 58	6 1	1	24 79 27 73	(7 36	1	22 63	1 .	n 96	0	-3	7.6
		4 63		2 00	3 8		17 05		13 29	,	15 -	,	4 20	1	44	3-18
		8 12		4 03	6	1		1_								

APPENDIX LXT

Agricultural Produce (Grading and Marking) (Tobacco) Rules

- 1 Short title and application -(1) These rules may be called the Agricultural Produce (Grading and Marking) (Tobacco) Rules, 1938
 - (2) They shall apply to tobacco grown in India
- 2 Grade designations Grade designations to indicate the quality of unmanufactured tobacco (Nicotiana Tabacum) grown in India are set out in column 1 of Schedules I to III
- 3 Definition of quality -(1) The general characteristics of quality indicated by such grade designations shall be as follows -
 - All the tobacco shall consist of clean and properly cured leaf free from excess moreture, stems and other extraneous matter
 - The tobacco may consist of leaf or strips (S) but not of mixtures thereof, and may be reconditioned (mechanically re dried) (R) or not

"In the case of ' Strips" the lower part of the midnib shall be removed to the extent of at least 50 per cent of the leaf

- (2) The special quality indicated by such grade designations is set out, against such designations in columns 2 to 4 of Schedule I, in respect of fluecured Virginia of Schedule II in respect of Sun cured Virginia and of Schedule III in respect of Sun cured "Natu ' (Country)
- 4 Grade designation mark The grade designation mark shall consist of the word 'AGMARK together with the following particulars -
- (a) Reconditioned The letter ' R
- (b) Strips The letter S
- (c) Flue cured The letter F
- (d) Variety of tobacco The letter V ' in the case of Virginia and the
 - letter N m the case of Natu (Country) An Arabic letter
- (e) Grade designation
- 5 Methods of marking -The grade designation mark together with the following particulars, so far as applicable shall be clearly indicated on each parkage by means of a stened having letters at least 2 inches high -
- (a) The name of the district To be indicated by the
- name of the district or the allotted abbrevia tron
- The last two figures of (b) Vear of harvestone the year
- 6 Example of marking -The marks 'AGMARK G 38 R S T' V 1' on a package shall represent Guntur District 1938 harvest Reconditioned,

^{*}The absence of any or all of the letters "R' "S' and 'F" would mean respec tively that the leaf is not reconditioned (me has cally reduced) that the leaf is not stripped and that the leaf is sun oured

Stripped Flue-cured, Virginia, Grade 1 tobacco Similarly the marks "AGMARK G 38 A 31 represent Guntur District, 1938 harvest, Sun cured "Natu" (Country), Grade 3 tobacco

- 7 Special marking rules—In years when there are rains at the time of years, provided the area of such spots does not exceed 0.5 per cent in the case of First Grade 1 per cent in the case of First Grade 1 per cent in the case of Second Grade, 1.5 per cent in the case of Third Grade, 2.5 per cent in the case of Fourth Grade and 2.5 per cent in the case of Fourth Grade and 2.5 per cent in the case of First Grade shelly spotsed leaf may be packed under the grade designations but shall bear a special mark (PP) following the grade designation mark
- 8 Method of packing—(1) Graded tobucco shall be packed in wooden hogsheads or wooden cases or in bales securely wrapped in gunny cloth
- (2) Each covering shall contain only tobacco of one grade designation, all of which shall have been harvested in the year specified

SCHEDULE I

Grade designations and definition of quality of unmanufactured Flue-cured Virginia* tobacco grown in India

Grade		Special c	haracteristics
des gna tions	Colourt	Texture†	Blem: h:
1	,	3	4
1	Bright Lemon	Fine	Slight green.h tings at veins free from spongmess
2	Lemon	Good to M limm	Small ghtgreen patches and greenish tings at veins with very light and orcasion! sconer spots at tips and edges of leaf not exceeding 13°nd of the total area.
3	Dull Lernon (Bright*)	Med um	Small light green patches and gree in hitinge at verns light sparey spots the area of which shill not exceed lifths of the total
4	Yellow with greet.th timon (Semi Brights)	Med um	Small hobt green patches and gree ni h time at vers light spores spot the area of which shall not exceed 4 16ths of the total
5	Dull yellow with greens h times (Coloury)	Coarse and than fnot papery) or mrved	Creensh and I ght brown patches extending to not more than 5.37nd soo cures and scalding not exceeding 8.16ths of the total area

SCREDULE II

Grade designations and definition of quality of unmanufactured Sun-cured Virginia* tobacco grown in India.

G-ade		Special charact	eristies
deeigna tions	Calour†	Texture†	Biemuh‡ 4
1	Bright	Good	Val
?	Light Brown	Medium	1/16
3	Dark Brown	Med um	2/16

SCHEDULE III

Grade designations and definition of quality of unmanufactured Sun-cured Natu (Country) & tobacco group in India

Grade		Special characters	estre
designa tions	Colourt	Texture†	Blemuht
1	2	3	4
ι	Bright	Good texture and body	200
2	Light Brown	Medium texture and body	2/16
3	Laght Dark	Medmm texture and body	2/16
4	Heavy Brown	Heavy body	2/16
5	Heavy Dark	Heavy body	2/16

Vurguma tobacco shall consist of the following varieties e: Harrison Special, Cash Adoock and hybrid of these varieties having similar characteristics

†Blemish shall include green patches, brown spots and patches, damage due to perts and discasses, braskage un handling, spongmess, asalding, black spots or other damage. The figures of proportion given in column 4 refer to the total area of leaf affected in any sample.

§ Vals (Country) tobacco may include any of the indigenous varieties of Nicotage Tobacum but all the leaves to any sample or container shall have similar varietal characteristics

^{*}To allow for accidental errors in grading a tolerance of 1/18th for colour and tex ture in respect of leaves corresponding to the specifications in the next lowest grade will be allowed except in Grade 1.

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APPENDIX LXIII

Quantity of imported tobacca (a bject to Customs duty) at the ports of each of Indian provinces and Burma which remained in the Cistoms Banded warehouses on 31st March in each official year

(In lb)

Tobacco	Year	Bengal.	Bombay	Sand.	Madras	Total	Burma.
danufactured and Unmanufactured	1928-29	8 5 110	17 785	17 154	467 393	1 377 442	170 58
-112212	1999-30	1 027,231	61 520	4 285	323 810	1 486 846	119 53:
	1930-31	773 448	4,921	53,543	6,400 351	7 232,266	110 881
	1931-3°	904,401	9 988	6 650	489 788	1 410 827	3 35
	1932-33	315 426	49 757	32,008	599 985	997 176	7 53
	1933-34	117,238	39 308	19 645	628,529	804,720	6 61
	1934-35	615 163	26 088	9 136	643,277	1,293 664	4,74
	1935-36	330 532	1 656	10 653	659 893	1,002,734	22,700
	1936-37	488,475	1 123	1 690	868,033	1,159 321	7 98

APPENDIX
Tr de (rail and r ver sorme) 11 name ufactured tobacco between
Average for the years 1934 35

(Thousand

	ł							Import
	Beng	pul	Bom	bay	Mad	ras		
Experts from	Bengai (excluding Calcutts ports)	Cn cotta port.	Bombay (exc ud ing Bombay port)	Bombsy port	Madras (exclud ing Madras port)	Madras ports	Bihar and Orma	United Pro Vinces.
Bengal (ex Calcutta port)		203 1			0.5		59 0	0.6
Calcutta port	22 6	ľ	1		0 4	01	36 4	28 3
Bombay (ex Bombay port)	19	8 1	Ì	125 2	2 7	3 2	2 1	18 3
Bembay port			11					0 1
Madras (sz Madras ports	10	80 8	41 4	0.3		430 2	54 9	9 6
Madras ports			01		20 0	-	- 1	
Bibar and Onsea	263 0	140 0	0.0		0.9	ì	i	385 0
UP	0.5	14	83	0 1	1	ļ	81	
Panjab		0.6	01			}	- 1	27 7
C P & Berar	03	0 2	03		0 1	1	0.3	51
Ascam	11 9	0.6					0 1	
Sind and Br Balueb s tan (rz Karschi)			01			Í	}	01
Karach								ì
At am a Domm ona			0.9	0.1	1 4	0 3		
Mysore			2 0		39 6	19 8		03
Kashm r					i		- 1	Į
Ra putana		0 1	02			ì	ì	17
Centra Ind a		0 1	01					1 3
Total	301 5	435 0	58 5	125 7	65.6	453 4	157 9	477 9

LXIV.

different provinces, Indiai States and chief ports in India

to 1936 37

maunds).

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		_								
Punjab.	C. P and Berar	Assaur.	Sind and British Balti chistan (ez-Kara chi.)	Kara eht.	Vizata s Domi nions	My sore.	hash mir	Raj putana.	Central India	Total,
	0 3	169 4						07		433 (
16	0 5	0.5			0 1	2 [0.5		93-1
19 0	124 1		57	37	13	2 2		120 0	133 7	571 2
			02					0 3		27
8.8	38 9		01		83 9	18 7			1 4	82º 8
	0.6				0 3	27 8		ĺ		48+8
719	82 2	21 8		01		0 4		0 1	11•5	893 8
111 9	19	0 1	'		0 1			45 0	8 7	183 4
			2 8	0.6			7 5	0.8	0 1	39 8
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LUCAR

dunici aesto, coasial export and insport trade en lobatro and loba to products

rna	Total tobacco and tobacco products	Tota?	4 306	16.52	13 480	37 60	2 430	33.28	4 204	u9 49	117	6 92	3 5 L 3	25 (2
and Bi	ofal tobac	Indian Fore ga	1 2	31	67	140	9	80	22	83	200	121	40	3 25
- de 1 ces	HY	Indian	4 20I	12 22	13 413	36 18	2	12,98	4 139	67 40	487	11.9	3 464	19 17
ndian p		Tetal	878	7	0.70	9 ;		\$	230	00 g	80		910	
of me 2	Manufactures	For En	20 6		5 8	- 40		g .		-	_		_	
Me 1 a		Lod an Lor	3.0	928	56	1143	- 5	200	2,81	68	9	1 523	5 10	_
tects of	1	Tona	781	489	13 96	202	-	3 169	99 00	312	6,75		12.14	
to 1936 ; usands) Cagarettes			3 2	13	3	-	10	18	82	8	1.00	_	2,985	-
12 lobacto and toba co pro- recago for 1934 35 to 1936 (All Egures in thousands) ctored Ognette	Ind an Pore on		7 58	5 24	28.82	202	\$ 4	2 145	86 03		_	525	_	-
tobacco ago for Mi figura	Total	3.768	6.27	1961	00.07	8	4 55	_	2 2					
Average Average (All i Unmanufactured tobacco	Poreign	1	_		-	_	-		_			_		
Verige in this case and the coponition of the rant mr Indian proctors and Burno (All Equipm anthonomia) Variable of the Copies of the Copie	Jachan Foreign	3 706	5 27	1 800	3 066		20 4	4 21	313	Ę	1 728	4 82	_	
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	1				٥	2	. 5	5	Ë	(R)	(g)	(E.)		
		Quantity	Grantily	Value	- Constaty	Value	Quantity	Value	Subnitity Pales	Guandi	Value	2		
	ĺ	Imports	Francis	,	Imports	_	Exports (~	_	~~	,		
		<u>ٿ</u>				~	Err	. ر	Imports	•	Exports			
1	1		Bengal			Madras			Bond	The same of				

	larorte	f Quantity	(Jb.)	1142	1 143		122	2	138	2	-	8	1 353	11	1 370	
		Value	ď,	1 33	193		9 22	163	10 18	9	•	9	11 88	1 69	13 57	
Sind		(Quantity	(lb)	23	_	92	9	10	22	8		2	101	20	60	
	Exports	\V doe	(g	22	_	22	2	32	8	•	6	22	30	7	7	
	ب	f Q ant ty	(q))	165		165	-				_		105		168	
	Importe	Value	(Fe)	14	_	<u> </u>		_					2	_	7	
Grilling	-	So and ty	(Ib)	2	_	52				_			2		22	
	n shou	Value	(B)	_				_		Π			-		-	
	٠	Quantity	(q)	6 152	0 462		500	22	623	1 001	Ξ	1 702	8 700	2	8 777	
1	napdw.	۲.	(Par)	12 00	12 60		2144	3 42	27.86	8 58	64	8 88	45 62	3 69	49 33	
lad a	-	∫գտ ւկւչ	(lb)	15 507	16 607	_	2 800	11	2 078	2 686	22	2 745	21 192	136	21 318	
		V lue	(RA)	27 77	77 72	_	83 03	81.4	87 21	12 32	9 12	13 51	1 23 12	5 37	1 28 40	
	Truenda	SQ ant ty	(db)	12 013	12 013		1 816	*	1814	267	n	270	14 600	-	14 007	
Barma		1 nlue	(Be	21 07	21 67		20 42	ដ	55 65	1 86	20	2 12	78 94	ę	70 44	
	1 a Porte	Quantity	(4b)	2 3/8	23(8	_	92	•	2	315	•	214	2 580	•	2 580	
		\ \alue	- (Be)	204	204		62	-	3	1 22	01	1 54	418	es	4 21	
								_				_				
				_						_		_		_		
					-	_		-	_	-		_	_			
					7.	Lonz than 500 lb	500 Ib									

APPENDIX LXVI

A sew representative instances showing the prior spread of different types of raw tobacco

				(Per	(Per standard maund),	*(pune					
	Cigarette tobacco	tohaeco	Cheroot	Cheroot tabacro	Bids tobacco	озже	Chev	Chewing to bacco		Hookah tobacco	pacco
J	Country (Vota) Producer Guntur Cons umer Manufac turer from Sukkur	Scraps and Freetons Froducer Guntur Consumer Manufac turer from Lahore	Producer Shwegym Consumer Manufac turer from Raugoon	Producer Darbatta (Cooch Behar) Consumer Moremer from Bogra	Producer Charotar area Consumer Manufac turer from Jub	Producer Nyaan Consumer Manufac turer from Calcutta	Producer Mazaffar pur (Bibar) Consumer from	Producer Comba tore Consumer from Gudiyat tam	O m	Producer Musaffar Stra Mysers Consumer Consumer Manufac from turns from angalon from Cawnpore	Prioucer Della Consumer Manufac, turer from Labore
			ءِ ا							T	
mount realteed by the grower	14.15.7	3 1 6 (36 8)	6 10 0	10 14 0 (84 3)	5 10 0 (58 2)	Re A F	Ra A P 8 14 0 (67 2)	Rs A P	Rs A P 6 13 3 (26 5)	Ra A. F.	3 6 9
farketing char ges	0 6 0	0 2 6 (1 9)	0 3 10 (3 1)	0 14 0	1 0 0 (10 4)	(10.5)	0 8 8 (3 8)	0 4 7	0 7 6 (1 8)	-	6 6 0
Acking and Package char ges	0 4 0	0,2,3	0.2.4	6 8 8	0 6 6	0 7 4	(8 1)	0 12 4	0 6 0	0 6 0	0 2 6 (2 8)
ransport up to rankay station or port	0 13 0	0 2 9	0 5 g (4 4)	0 1 6	(0.7)	0 1 0	0 2 0	0 1 10		0 2 0	0 1 0

0 7 (000)		0 2 0 (2 2)	0 3 0			5 10 0 (100 0)	
(40 4) (6 9) (11.2) (2.0) (97) (20 0)	0 1 0	0,3,0	0 0 5 10 4 0 0 0 0 (0 2) (30 8) (0 3)			(100 0) (100 0) (100 0) (100 0) (100 0) (100 0)	
6 10 3 (2 5)			10 4 0 (30 8)	2 6 G (0 4)	4 13 3	25 11 9 (100 0)	
(11.2)		(0 4)	0 0 5	0 14 1	(11 1) (4 3)	13 13 7 (100 0)	_
(6 9)	0 0 10	0 2 6 (1 2)	0 0 0 0	0 13 4	1, 7, 4 (a1 1)	(100 0)	
(10 4)		900				20 0 9 (100 0)	Ī
2 3 0 (22 6)	-	(0 0) 0 1 0	(3 3)			9 10 8 (100 0)	
0 8 6		0 2 0 (1 0)				7 12 0 12 14 5 (100 0) (100 0)	
(4.2)		0 1 10				7 12 0 (100 0)	
4 12 0 (56 5)		0 1 6				8 6 6 (100 0)	
(15 5)	0 3 5	0 2 0 (0 0)	(6.7)			20 0 0 (100 0)	
Freight and handling charges at ly sta	Insurance	Road transport from railway station r port to merel at te	Terminal an I	Wholesale mer chant a marg n	Rotailer s margin	Manufacturers 20 0 0 8 6 6 or consumer s (100 0) (100 0) price	

Norn -- Ligures in brackets denote percentage of consumer's price

GLOSSARY OF VERNACHLAR TERMS

A

Commission agent Adatya Ak Milk weed-Calatrons

Anathalaya An orphanage Angad Tobacco powder

A tree the leaves of which are used as wrappers for Apla heter

Arhativas Commission agents

Ath A unit of weight in the wholesale trade of tobacco at Sangle and Javasingpur equivalent to 224 lb

Bassare A market charge in kind levied in Bengal 4 handle

Bantun A village merchant who is generally the village

financier as well.

Rardana A deduction on account of weight of bars or tare Raru Long

P.v A kind of plum

Randhan

Rharam A unit of weight in the wholesale trade of tobacco in

Madras varying from 500 to 520 lb Rhots or Bhods Packages

Rhuko Coarsely erushed bids tobacco leaves An indigenous cigarette made by wrapping powdered D.J. tobacco leaf of a tree (Diospyrus) See page 328

A moneylender Chetty 1/16 of a seer

Chhatank An allowance in weight Chhant

A country clay pipe cup or bowl used for smoking raw or manufactured hoolah tobacco Chilam

Weighing charge Chintalu Gratuity Chungs Powder Chura A large sized bids Chuttas D

Broker Dalal

Brokerage Dalais Finely granulated chewing tobacco

Danedar An allowance for shrinkage in weight Dhalia A lower class grower in Charotar area

Dharalas A payment made to the commission agent at a flat Dharat rate m \ W F P

Laterally five seers But the weight varies from Dhars one area to another

A market charge on account of charity Dharma A market charge on account of charity Dharamadaya A market charge on account of charity Dharmaa

A market charge on account of charity Dharmay Tobacco powder or dust Dhas

A Hindu festival when illuminations take place on a Donals large scale occurring in October November

Double Tobacco leaf flakes used for making bidis Dudhkhawa Present

Fobs co car flakes used for making bidis Farmas A charge for turning over tobaco bags in the store

A heap (It also means a market) Gant Bundle Ganth

Ghatia Laterally inferior-an inferior quality of hookah tobacco

Goli A pill or tablet

Feru amans

Goushala or Gashala

Bales Gorda

An institution providing shelter for cows н

A weekly market Hat B d: tobacco leaves spread and bundled Hatvan

Hat tola An extra quantity of tobacco given to the buyer before he takes delivery of the stock

Depressed classes Harijans

Hookah Smoking pipe-smoke berng drawn through water in vase to which a long flexible tube and a bowl are

attached Hurra Meeting place

Hundekars A forwarding and clearing agent

Jarda or Zarda Powdered chewing tobacco Jours A millet-Audropogan Sorghum

Judi or Julis Bundle

Kachcha Laterally raw and unfinished. The word has a wide range of meanings, eg, a kachcha road is an unmetalled road . kachcha as applied to work would imply slipshod or inefficient, kachcha arhati ja is a trader of small means dealing in agricultural produce before it is bagged or made ready for final sale

K

Kadhi Joseph straw **A**ala Black Kalı Black

 $Kamb_{i}$ A blanket Karwa

Laterally of bitter tasto-a strong and pungent quality of hookah tobacco Katha

Khabbars A rope of twisted tobacco plants.

Khambira or Khamira A tobacco product,

502

Khamir

Petiras

Phena

Pinirapole

 $P_{i}I_{i}$

Lat. fermented stuff A tobacco product

Kunhan Arecanut palm Knecht II.cm2 L A market allowance Labh Red Lal Long mitts Salty soil containing large quantity of saltpetre 7.5 oney lender or banker Maharan Mahara An important section of Harrison community in the Boml av Presidence Mamools or Mamul Laterally enstormary-a fixed charge Mangon A present 3 standard maunda make one Bombay Man Map Forwarding agent s charges Marfat A forwarding agent Marfatia markelf Matta vam 312.44 Improved bacs made of coarse woolen blankets A head coone Mastra 31,150 Literally sweet-a mild quality of hooksh tobacco Laterally period. A deduction made by the arkativa An Idat to cover the loss of interest on money which he pays in advance to mis seller client Mr nsh Clerk N A market charge levied in the Charotar area \amax P Literally a milt-a market charge levied in the Pagha la Charotar area Hawkers Paulars Solidly huit Laterally-final real or mature PalkaBalos Pallas A curring shed Pandal A b. tel leaf and betel out seller Panuala An Afghan a sect of M hammedana Pathan A school Pathshale or Patshala Patts Literally leaf-coarsely powdered chewing tobacco A petty revenue official in the village Patients Pendus or Pindis Bundles

Strong bamboo crates.

An institution providing shalter for cattle

A hawker

Yellow

A un t of weight in the wholesale trade of tobacco in Polh: Madras varying from 250 to 500 lb It also means a package

> A unit of weight in the wholesale trade of tobacco in Vizagapatam equivalent to 450 lb

> > Q

Leterally essence—chowing tobacco made in the form Quoam of a paste

R

Rayad or trible Tobacco leaf flakes smaller in size than those used for making bidis

Alkalme earth

Reh Russa or Rassa Ropes

Putty

Trible

Zarda Jarda

Contingent expenses Russoom

Sada Laterally simple-an inferior quality of hookah tobacco

Sahukar A money lender

Shroft A village merchant who is generally the village financier as well

Sub dalal An agent of a broker

Streta Powdered chewing tobacco

Talatı A petty revenue official in the village

TaluaA sub division in a district

Tapedar A petty revenue official in the village Tars shars An allowance to kachcha arhatiya

Thadronn A merket charge on account of charity

Tharaku Mandses Wholesale markets Thulam

A unit of weight in the wholesale trade of tobacco in Penskulam (Madras) equ valent to 23} lb

See Pa.nd

Vota: Discount for making each payment

Viss (Burma) 3 6 lb make one Burma pass

V 188 (Madras) a unit di weight m'the retali trade in Godavari and Vazagapatam of Madras equivalent to 3 lb

z

Powdered shewing tobacco